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## Military

SCC designated a 2015 Military Friendly School


SCC signs 'Got Your 6' Pledge, supports student veterans


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## St. Charles Community College Catalog 2014-15



## Related Links

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Watch SCC's Got Your 6 video

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## Getting Started at SCC



## Planning Programs of Study

## Transfer and Schedule Guides

Students who wish to graduate from SCC and transfer with junior standing should carefully plan a program of study to meet the requirements needed for the major at the transfer institution. Contact the Enrollment Services Department concerning academic advising and the transfer process.

Suggested curriculum guides are available for college programs. These guides indicate how you may complete your course of studies within a particular time frame. There are also transfer guides available for many majors at area colleges and universities. See our transfer pages for more information.


## What Is the Academic Skills Assessment?

St. Charles Community College expects students to exhibit certain academic skills and competencies before they take college-level courses. The Academic Skills Assessment is a series of basic skills indicators that allow you and your advisor to work together to help you succeed in your courses. There is no "passing" score. Rather, the Academic Skills Assessment scores indicate areas where you are strong, academic areas where you may need help, and which courses to take as a starting point for your educational career. All of the assessments are untimed. Students use an onscreen calculator during the math assessment.

All assessments are administered during regular Assessment Center hours and do not require an appointment.

Contact Accessibility Services, in advance, at 636-922-8581 if you need special accommodations for the Academic Skills Assessment.

## Full-Time Course Load and Freshman-Sophomore Classification

Students at SCC are classified according to hours enrolled and hours completed. Part-time students earn fewer than 12 hours per semester, while full-time students carry 12 or more. During the summer semester, full-time student status requires 6 or more credit hours (for

## Related Links

## - Admissions

- Class Schedule
- Current Students
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2013 Commencement Photo Gallery

academic purposes). Full-time status for financial aid in the summer is 12 or more credit hours.

| Course Load | Fall/Spring | Summer |
| :--- | :--- | :--- |
| Full time | 12 or more hours | 6 or more |
| Part time | 11 hours or less | 5 or less |

A freshman is any student who has completed fewer than 28 credit hours; a sophomore has completed 28 credit hours or more.

Except as indicated below, the maximum number of credit hours for which a student may enroll during the fall or spring is 18 . During the summer, the maximum is 10 hours taken concurrently. Any course repeated counts as part of the course load.

It is recommended that the maximum course load for each of the following academic sessions be observed:

MAXIMUM COURSE LOAD

| Academic Session | Course Load |
| :--- | :--- |
| Summer | 10 credit hours |
| Fall | 18 credit hours |
| Spring | 18 credit hours |

Repeated courses count as part of the course load.
Students with a superior scholastic record may be permitted to register for more than the recommended maximum providing they meet the following GPA prerequisites:

- 2.75 GPA - approved to take 19 hours
- 3.00 GPA - approved to take 20 hours
- 3.50 GPA - approved to take 21 hours

Students wishing to take more than 21 hours must receive special permission from the Academic Affairs Office.

A veteran, in order to receive maximum assistance under the Veterans Education Law (G.I. Bill), must carry at least 12 hours of credit per semester.

## Sending Transcripts to SCC and Transcript Evaluation

When transferring to SCC from another institution, you must complete the following steps.

- Have official transcripts from EACH institution that you attended sent to the Admissions Office.
Credits for courses with passing grades may be accepted at the registrar's discretion.
- To have the credits taken at other institutions evaluated, submit a Request for

Transfer Evaluation Form to the Admissions Office and declare a degree.

- Accepted transfer credits will be included in the cumulative hours of credit but will not be calculated in the grade point average.
- You will receive a transfer evaluation report indicating how the courses were accepted. Please allow two weeks for an evaluation from the time the transcripts are received.
- Transcripts sent to SCC will not be automatically reviewed unless the student has requested in writing that a review be made.
- To Appeal Your Evaluation: Send a letter requesting the appeal; documentation (course description and syllabus) supporting your requested change to: Transcript Evaluator ADM 1113 St. Charles Community College 4601 Mid Rivers Mall Drive Cottleville, MO 63376-2865
- The transcript evaluator will submit your request and documentation to the division dean for review. A decision will be made within 7-10 days. The student may also contact the articulation officer at the sending institution.
- Missouri's Coordinating Board for Higher Education approved a credit transfer policy that states that any transfer student who believes there has been unfair treatment involving acceptance of college credits may appeal the evaluation.


## Non-Traditional Credit (AP/CLEP)

## Types of Non-Traditional Credit

## CLEP | Advanced Placement | Departmental Exam | Retroactive Credit | Articulation Credits | Military Experience | PEP

Credit granted through one of the non-traditional processes will count towards the total credits earned towards graduation; however, the credit will not be calculated into the cumulative GPA. Colleges or universities to which you may transfer might not accept this credit. Likewise, SCC may or may not accept credit by examination taken elsewhere. Each institution makes its own evaluation of these issues.

## College Level Examination (CLEP)

Evaluates knowledge acquired through sources other than traditional college course work. SCC will grant credit for certain subject CLEP examinations according to departmental guidelines. SCC does not grant credit for general CLEP exams.

| COLLEGE LEVEL EXAMINATION (CLEP) |  |  | REQUIRED SCORES |
| :--- | :---: | :---: | :--- |
| Course/Subject Area | Score <br> Required | Hours <br> Granted | SCC Equivalent |
| American Government | 50 | 3 | POL 101 |
| American History 1 | 50 | 3 | HIS 101 |
| American History 2 | 50 | 3 | HIS 102 |
| Management | 50 | 3 | BUS 201 |
| Marketing | 50 | 3 | BUS 230 |
| Psychology | 50 | 3 | PSY 101 |
| Sociology | 50 | 3 | SOC 101 |
| Western Civilization 1 | 50 | 3 | HIS 145 |
| Western Civilization 2 |  |  | HIS 146 |

## Advanced Placement (AP)

Administered through area high schools allows a student to gain college credit through subject area testing.

| ADVANCED PLACEMENT REQUIRED SCORES |  |  |  |
| :--- | :--- | :---: | :--- |
| Course/Subject Area | Score <br> Required | Hours <br> Granted | SCC Equivalent |

## Departmental Exams

Credit may be granted to a student who has in-depth knowledge of a subject. Discuss with the appropriate department chairperson whether you are prepared to take an exam. The department may refuse to administer the exam based on the evaluation. The fee for the exam must be paid before taking the test. Credits earned by examination will be equated to a specific SCC course and will be designated under the category of "non-course work" on the academic transcript.

## Retroactive Credit

If you are able to enroll in a higher level foreign language course, and upon completion of that course with a $75 \%$ or better grade receive credit for the lower-level course or courses that were bypassed. Consult with the department chairperson for more information. Hours awarded vary.

## Credit Through Articulation Process

SCC has agreed to grant college credit to students completing specified courses as stated in college-approved articulation (transfer) agreements with certain area career/technical programs and high schools. Credits apply ONLY to the Certificate of Achievement and Associate of Applied Science. Examples of courses included ACT-101, BUS-101, or some computer courses. Will be designated under the category of "non-course work" on the academic transcript. Students must present SCC with a completed copy of the articulation agreement at the time of enrollment.

## Articulation Criteria

- Articulated courses have been designed for credit both at your high school and for credit at SCC toward an Associate of Applied Science Degree, NOT for the Associate of Arts (transfer) Degree.
- A grade of " $B$ " or better is required in all high school coursework that is articulated.
- The student must complete the SCC application and request that a high school official transcript be sent to the SCC Enrollment Services Department (ADM 1113).
- When meeting with an SCC academic counselor or registration assistant, students must identify themselves as having articulated credit through their high school.
- Students must present the white copy of the Certificate of Credit to Enrollment Services.
- Students must complete 6 hours of college-level coursework toward an A.A.S. Degree at SCC with a 2.5 or higher GPA before articulation credit will be posted.
- Students must request that the SCC Enrollment Services Department record the Articulated High School Courses to the SCC transcript.
- Should students wish to transfer any of these articulated credits from SCC to another college or university, they should check with an academic counselor at the transfer institution to determine transferability.


## Military Experience

Experience in the Armed Services may be considered for credit based upon recommendations of the American Council on Education Commission and the students intended major. Submit a military transcript and automatically be awarded 2 credit hours of Physical Education. Contact the Coordinator of Veteran Benefits for information on obtaining a military transcript.

## Proficiency Examination Program (PEP)

American College Testing (ACT) sponsors PEP, which evaluates specific subject area knowledge a student may have acquired through sources of training other than traditional course work. With a score of a 45, you may be granted credit for Anatomy \& Physiology 1 \& 2 (BIO-240/243 and BIO-241/244) (8 credits) or for Microbiology BIO-245/247 (4 credits).

## Services for Students With Disabilities

Students must contact DSS regarding possible services. The process includes review of documentation and interviews with the student. Academic accommodations are not automatically provided because a person has a specific diagnosis. DSS determines disability status case by case. Accommodations are arranged to ensure access to programs/courses.


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SCC signs 'Got Your 6' Pledge, supports student veterans


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## General Education Requirements

## Associate of Arts Graduation Requirements

## Associate of Arts in Teaching Graduation Requirements

## Associate of Applied Science Graduation Requirements

## Certificates of Achievement Graduation Requirements

## Associate of Arts Graduation Requirements

## General Education Requirements

General Education studies at St. Charles Community College guide students into a deeper understanding of themselves and of their responsibilities as citizens, and they provide the knowledge and skills on which to build a richer appreciation of their world.

NOTE: The courses below meet the general education requirements* for SCC and the state of Missouri. This sequence of courses is for the students who wish to transfer to a four-year institution and have met their general education requirements. To obtain the Associate of Arts degree from SCC, students must also meet the Institutional Requirements outlined below. See: Associate of Arts Graduation Requirements.

* Some academic programs may require a specific course within a discipline. See the Degrees and Certificates section for details. Check with academic advising for transfer institution-specific requirements.


## SCC Institutional Requirements

- Complete a minimum of 64 credit hours, including 42 credit hours of general education courses adhering to the minimums as listed below.
- Complete 22 credit hours of elective courses as advised by an academic counselor, including one of the following, ART 1105, BAS/CPT 103, CPT 115, EDU 220 or test for competency.
- Complete a minimum of 15 credit hours at SCC.
- Earn a 2.00 cumulative grade point average.

| Discipline | Description | CreditCourses <br> COMMUNICATIONS | To develop students' effective use of the English language and <br> quantitative and other symbolic systems essential to their success in <br> school and in the world. Students should be able to read and listen <br> critically and to write and speak with thoughtfulness, clarity, coherence, <br> and persuasiveness. |
| :--- | :--- | :--- | :--- |
| SOCIAL SCIENCES | To develop students' understanding of themselves and the world <br> around them through study of content and the processes used by <br> historians and social and behavioral scientists to discover, describe, <br> explain, and predict human behavior and social systems. Students <br> must understand the diversities and complexities of the cultural and <br> social world, past and present, and come to an informed sense of self <br> and others. (Students must fulfill the state statute requirements for the <br> United States and Missouri Constitutions.) | ENG 101, 102 <br> SPE 101, HON 100 |  |


|  |  |  | One Additional Course from Group I or II, or: Any HIS <br> Any POL |
| :---: | :---: | :---: | :---: |
| HUMANITIES | To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge. | 9 | One Course from Group I: <br> ART 1001 (101), 1500 (150), <br> 1505 (151), 2210 (160), <br> 1200 (170), 2220 (222), <br> 2401, 2501, 2551, 2601, <br> 2701, 2751 <br> ENG 201, 202, 203, 206, <br> 207, 208 <br> MUS 109, 110, 111, 112, <br> 113, 114, 229, 230, 231, 232, <br> 234, 235 <br> THE 122, 123, 124, 229, 230 <br> One Course from Group II: <br> Any LIT <br> Any PHL <br> Any Foreign Language <br> BUS 105/CPT 105 <br> One Additional Course from Group I or II |
| MULTICULTURALI VALUING | To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to analyze the ethical implications of choices made on the basis of these values. | 3 | ANT 102, 103, 151, 161, 171, <br> 201, 202, 220, 224 <br> BUS 105 or CPT 105 <br> BUS 255 <br> CRJ 280 <br> ESL 107, 108 <br> GEO 100, 101, 102, 110 <br> Any GLC <br> Any GLS <br> HIS 145, 146, 160, 201, 202, <br> 203, 240 <br> LIT 200, 207, 271, 272, 273, 275 <br> LIT 241 or SOC 241,242 <br> MUS 111 <br> PHL 201 <br> POL 201, 210, 220, 255 <br> Any Foreign Language <br> SPE 215 or GLC 215 |
| MATHEMATICS | To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning. | 3-4 | MAT 155 or higher <br> NOTE: A student who does not take MAT 155 or MAT 158 or MAT 162 to meet the Mathematics requirement, may need to take an additional credit hour, e.g. an additional science lab or an hour of GLC course to meet the 42 credit hour general education requirement. <br> Speak with your counselor or advisor. |
| NATURAL SCIENCE | To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the | 7 | One Course From Group I: BIO 100, 105/106, 110/113, 120/121, 122, 130, 140, 150 or 160 |


|  | world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts. |  | One Course From Group II: <br> CHM 101/103, 110/113 or 115 <br> PHY 105/107, 111/113, 125/127, 130/131, 150/153, 225/227, 240/243 <br> At least one lab must be taken with a corresponding lecture course. |
| :---: | :---: | :---: | :---: |
| CAPSTONE | To assess acquisition of knowledge and skills. | 1 | COL 299 |

Higher-Order Thinking. To develop students' ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; and to solve problems by applying evaluative standards.

Managing Information. To develop students' abilities to locate, organize, store, retrieve, evaluate, synthesize, and annotate information from print, electronic, and other sources in preparation for solving problems and making informed decisions.

## Associate of Arts in Teaching Graduation Requirements

## General Education Requirements

General Education studies at St. Charles Community College guide students into a deeper understanding of themselves and of their responsibilities as citizens, and they provide the knowledge and skills on which to build a richer appreciation of their world.

NOTE: The courses below meet the general education requirements* for SCC and the state of Missouri. This sequence of courses is for the students who wish to transfer to a 4-year institution and have met their general education requirements. To obtain the Associate of Arts degree from SCC, students must also meet the Institutional Requirements outlined below.

* Some academic programs may require a specific course within a discipline. Please see the Degrees and Certificates section for details. Check with academic advising for transfer institution-specific requirements.


## SCC Institutional Requirements

- Students must achieve a cumulative GPA of 2.75 which includes all courses transferred to SCC as well as courses taken at SCC (Transfer institutions may require a higher GPA).
- A "C" or better is required in any EDU course. Cumulative Education GPA has to be 3.00.
- Students must achieve a passing score on each section of the new MOGEA.
- EDU 211, 220, 240, 285, and 290 are required to earn an AAT degree.
- Students must complete a mid-preparation portfolio, which will be done in EDU 290.
- Students enrolled in many EDU classes will be required on the first day of class to request a background check. Students who have been convicted of a felony will not be allowed to observe/participate in P-12 schools and must appeal to the Missouri State Board of Education before completing a Teacher Education program. For more details view the Education Department info.

| Discipline | Description | Credit <br> Hours | Courses |
| :---: | :---: | :---: | :---: |
| COMMUNICATIONS | To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Student should be able to read, listen critically as well as write and speak with thoughtfulness, clarity, coherence, and persuasiveness. | 9 | ENG 101, 102 <br> SPE 101 or SPE $102$ |
| SOCIAL SCIENCES | To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. (Students must fulfill the state statute requirements for the United States and Missouri Constitutions.) | 9 | $\begin{aligned} & \text { PSY } 101 \\ & \text { HIS } 102^{*} \text { or HIS } \\ & 146 \\ & \text { POL } 101^{*} \text { or POL } \\ & 210 \\ & \text { * Students must } \\ & \text { take either HIS } \\ & 102 \text { or POL } 101 \\ & \text { to meet state } \\ & \text { requirements. } \end{aligned}$ |
| HUMANITIES | To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and fine arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world | 6 | LIT 271 <br> LIT 210 or <br> LIT 220 |


|  | of the creative imagination as a form of knowledge. |  |  |
| :---: | :---: | :---: | :---: |
| MULTICULTURALI VALUING | To develop students' abilities to understand the moral and ethical values of a diverse society and to understand that many courses of action are guided by value judgments about the way things ought to be. Students should be able to make informed decisions through identifying personal values and the values of others and through understanding how such values develop. They should be able to analyze the ethical implications of choices made on the basis of these values. | 3 | GEO 100 or ANT 102 |
| MATHEMATICS | To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning. | 4 | MAT 156 or MAT 162 (for secondary math or science major) |
| NATURAL SCIENCE | To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts. | 11 | Choose one option: <br> Option 1: <br> BIO 105 <br> CHM 115 <br> PHY 111 <br> Option 2 (must take two lab courses): BIO 105/106 CHM 101/103 PHY 111/113 |
| CAPSTONE | To assess acquisition of knowledge and skills. Students must pass all areas of MOGEA exam. |  | Passing Scores: <br> English/Language <br> Arts - 186 <br> Writing - 193 <br> Science - 183 <br> Social Science - <br> 183 <br> Math - 183 |

Higher-Order Thinking. To develop students' ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; and to solve problems by applying evaluative standards.

Managing Information. To develop students' abilities to locate, organize, store, retrieve, evaluate, synthesize, and annotate information from print, electronic and other sources in preparation for solving problems and making informed or GLS.

## Associate of Applied Science Graduation Requirements

## General Education Requirements

The courses in the chart below meet the college's general education requirements for the Associate of Applied Science degree. General education studies at St. Charles Community College guide students into a deeper understanding of themselves and of their responsibilities as citizens and provide the knowledge and skills on which to build a richer appreciation of their world. Some career programs will dictate which general education courses to take.

NOTE: Some academic programs may require a specific course within a discipline. Please see the Degrees and Certificates section for details.

## SCC Institutional Requirements

- Complete a minimum of 60 credit hours, including 24 credit hours of general education courses adhering to the minimums listed below.
- Complete specific program requirements as listed under each program.
- Complete a minimum of 15 credit hours at SCC.
- Earn a 2.00 cumulative grade point average.

| Discipline | Description | Credit Courses |
| :--- | :--- | :--- | :--- | :--- |
|  |  | Hours |


| COMMUNICATION | To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically and to write and speak with thoughtfulness, clarity, coherence, and persuasiveness. | 9 | ENG 101 <br> ENG 102, <br> 115 or 125 <br> HON 100 <br> SPE 101 |
| :---: | :---: | :---: | :---: |
| SOCIAL SCIENCE | To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. | 3 | $\begin{aligned} & \text { HIS 101, } \\ & \text { 102, 115, } \\ & \text { 202,203,270 } \\ & \text { POL 101, } \\ & 102 \end{aligned}$ |
| MATHEMATICS | To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning. | 3 | MAT 105 or higher |
| HUMANITIES | To develop students' understanding of the ways in which humans have addressed their condition through imaginative work in the humanities and arts; to deepen their understanding of how that imaginative process is informed and limited by social, cultural, linguistic, and historical circumstances; and to appreciate the world of the creative imagination as a form of knowledge. | 3 | Any ART <br> BUS 105 or <br> CPT 105 <br> DAN 196, <br> 197, 198, <br> 199 <br> EDU 125 <br> Any LIT <br> Any MUS <br> Any PHL <br> Any THE <br> Any <br> Foreign <br> Language |
| NATURAL SCIENCE | To develop students' understanding of the principles and laboratory procedures of life and physical sciences and to cultivate their abilities to apply the empirical methods of scientific inquiry. Students should understand how scientific discovery changes theoretical views of the world, informs our imaginations, and shapes human history. Students should also understand that science is shaped by historical and social contexts. | 3 | Any BIO <br> Any CHM <br> Any PHY |
| ELECTIVE |  | 3 | Any ANT <br> Any ART <br> Any BIO <br> Any CHM <br> CPT/BAS <br> 103, CPT <br> 115, or EDU <br> 125,220 <br> Any ECO <br> Any ENG <br> Any GEO <br> Any HIS <br> Any LIT <br> Any MAT <br> Any MUS <br> Any PHE <br> Any PHL <br> Any PHY <br> Any POL <br> Any PSY <br> Any SOC <br> Any SPE <br> Any THE |

## Certificates of Achievement Graduation Requirements

## General Education Requirements

Using the chart below, complete a minimum of 30 credit hours, including 12 credit hours of general education courses:

- one course from each group

NOTE: Some academic programs may require a specific course within a discipline. Please see the Degrees and Certificates section for details.

## SCC Institutional Requirements

- Complete specific program requirements as listed under each program.
- Complete a minimum of 15 credit hours at SCC.
- Earn a 2.00 cumulative grade point average.

Note: Travel courses may not be used to fulfill general education requirements.

| Discipline | Description | Credit Hours | Courses |
| :---: | :---: | :---: | :---: |
| COMMUNICATION | To develop students' effective use of the English language and quantitative and other symbolic systems essential to their success in school and in the world. Students should be able to read and listen critically and to write and speak with thoughtfulness, clarity, coherence, and persuasiveness. | 3 | ENG 101, 102, 115, 125 or SPE 101 |
| SOCIAL SCIENCE | To develop students' understanding of themselves and the world around them through study of content and the processes used by historians and social and behavioral scientists to discover, describe, explain, and predict human behavior and social systems. Students must understand the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. | 3 | $\begin{aligned} & \text { HIS 101, 102, 115, } 270 \\ & \text { POL 101, } 102 \end{aligned}$ |
| MATHEMATICS | To develop students' understanding of fundamental mathematical concepts and their applications. Students should develop a level of quantitative literacy that would enable them to make decisions and solve problems and which could serve as a basis for continued learning. | 3 | MAT 098 or higher |
| ELECTIVE |  | 3 | Any ANT <br> Any ART <br> BAS 103 <br> Any BIO <br> CPT 103, 115 <br> Any CHM <br> Any ECO <br> EDU 220 <br> Any ENG <br> Any Foreign Language <br> Any GEO <br> Any HIS <br> Any LIT <br> Any MAT <br> Any MUS <br> Any PHE <br> Any PHL <br> Any PHY <br> Any POL <br> Any PSY <br> Any SOC <br> Any SPE <br> Any THE |

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Associate of Arts Degrees - 2014-

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Business Administration

- Business Transfer Program Schedule Guide


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- Computer Science Transfer Program Schedule Guide

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- Foreign Language Transfer Program (French, German, Spanish) Schedule Guide

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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

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\section*{Art/Graphic Design Transfer Program Schedule Guide <br> | Degree Name: | Art/Graphic Design Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Graphic Design |
| Degree Type: | Associate of Arts Degree | <br> | Italicized courses are recommended to be taken for elective credits. |
| :--- |
| First Semester | <br> | ART 110 | Drawing I | 3 |  |
| :--- | :--- | :--- | :--- |
| ART 150 | Survey of Western Art History I | 3 |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 160, 165 or <br> higher | College Algebra, Contemporary College Math | $3-4$ |  |
|  | Social Science (Group I) | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ | <br> Second Semester <br> FIND OUT MORE! <br> about SCC <br> Department <br> Art <br> Related Degrees/ Certificates}




- Graphic Design A.A.S.
- Print Media C.S.


## Office Info

## Office Hours

8:30 a.m.-5:30 p.m.
Monday-Thursday

8:30 a.m.-2:30 p.m.
Friday

## Office Location

Visual Arts Building
Office Phone Number
636-922-8556

|  |  | Course(s) in major for transfer institution | 3 |
| :--- | :--- | :--- | :--- |
|  | Computer Science | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | 16 |
|  |  |  |  |
| Total Hours Required For Graduation | 64 |  |  |
| For more information call 636-922-8241 |  |  |  |



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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Business Transfer Program Schedule Guide

## Business Transfer Program Schedule Guide



## What Is Business Administration - Transfer Program A.A.?

This transfer program provides students with a basic knowledge of business administration and prepares individuals to continue their education at a four-year university. Business administration students choose an area of focus - accounting, banking and finance, management or marketing. Completion of this degree prepares students to transfer to a four-year university.

## Occupation Overview

Business administration graduates may enter fields ranging from accounting, general business, banking and finance, management and marketing.


## Occupational Outlook

Because of the multitude of careers in this field, the outlook is varied. Positions that have a bright outlook include accounting clerks, bank and branch managers, accountants, business service specialists, certified public accountants, chief executives, construction managers, controllers, curriculum and assessment directors, estimators, event/convention planners, financial workers, general operations managers, greenhouse and nursery managers, hospital administrators, import/export customs brokers, instructional coordinators, auditors, loan officers,
management consultants, market research analysts, medical records administrators, public relations specialists, purchasing agents and treasurers. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or they are new and emerging occupations in high growth industries.

For most jobs, the outlook for growth is as fast as the average.

## Learn more from SCC Career Services

Business Administration insurance agent, job development

Apply
 now!

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about SCC
Success Story

## Erik Vasquez

"SCC has made the transition from high school to college a lot easier. I have a great opportunity to do something successful with my life."

Full Story

## Department

Business Administration - Accounting

## Related Degrees/ Certificates

- Accounting C.S.
- Banking/Finance C.S.
- Business Administration A.A.S.
- Business Administration C.A.
- Management C.S.
- Marketing C.S.

Program Contact

## Anna Boulware

636-922-8328
aboulware@stchas.edu

## Transfer Careers

Graduates with a Bachelor of Science degree (B.S.) in business administration are employed in a broad range of careers including, but not limited to: accountant, actuary, administrator, advertising account manager, advertising agency coordinator, advertising sales promotion manager, analyst, artist agent, athletes business manager, auditor, bank and branch manager, business service specialist, chief executive, chief financial officer, construction manager, county or city auditor, curriculum and assessment director, event/convention planner, financial analyst, financial planner or examiner, fundraiser, general operations manager, hotel manager, human resources management advisor, import/export customs broker, industrial relations specialist or coordinator,
specialist, labor relations specialist, loan counselor or officer, lobbyist, management consultant, marketing manager, personal coordinator, personnel recruiter, public relations manager, purchasing manager, retail sales department supervisor or manager, sales representative, securities broker, social and community service manager, sports event planner, storage distribution manager, talent agent and treasurer.

## Salary Outlook

In the state of Missouri, business and financial occupations employees earn an average of \$63,090 per year.
Source: Bureau of Labor Statistics
According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.


| SPE 101 | Oral Communication | 3 |  |
| :--- | :--- | :--- | :--- |
| ACT 130 | Managerial Accounting+ | 3 |  |
|  | Social Science (Group II) | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | 16 |
| Total Hours Required for Graduation | 64 |  |  |
| *Math requirements vary at different institutions. |  |  |  |
| +Please note that all business majors should prioritize taking the Accounting and <br> Economics sequences since those courses are the most commonly transferable business <br> courses. Business, math and computer requirements vary widely at different institutions. <br> Be sure to check transferability to your specific transfer school before choosing <br> business, math and computer courses. Common business elective courses: BUS 101, <br> BUS 246, BUS 201, BUS 230 and MAT 210. <br> For more information, call 636-922-8241. |  |  |  |



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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Communication Transfer Program Schedule Guide

## Communication Transfer Program Schedule Guide

| Degree Name: | Communication Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Speech/Communications |
| Degree Type: | Associate of Arts Degree |


| Italicized courses are recommended to be taken for elective credits. |  |  |  |
| :--- | :--- | :--- | :--- |
| First Semester | English Composition I | 3 |  |
| ENG 101 | Contemporary College Math, College Algebra | $3-4$ |  |
| MAT 155, 158 or <br> higher | Oral Communications | 3 |  |
| SPE 101 | Social Science (Group I) | 3 |  |
|  | Humanities (Group II)* | $3-4$ |  |
| COL 101 | College Success Seminar | 1 |  |
|  | TOTAL |  | $16-18$ |


| Second Semester |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| ENG 102 | English Composition II | 3 |  |  |  |  |
|  | Natural Science with Lab | 4 |  |  |  |  |
| COM 102 | Introduction to Mass Communication | 3 |  |  |  |  |
| SPE 102 | Public Speaking | 3 |  |  |  |  |
|  | Humanities * | $3-4$ |  |  |  |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ |  |  |  |


| Third Semester |  |  |  |
| :--- | :--- | :--- | :--- |
| SPE 110 | Interpersonal Communication | 3 |  |
|  | Course(s) in major for transfer institution | 6 |  |
|  | Social Science (Group II) | 3 |  |
|  | Multicultural/Valuing/Foreign Language* | $3-4$ |  |
|  | TOTAL |  | $15-16$ |
| Fourth Semester |  |  |  |
|  | Social Science | 3 |  |
|  | Computer Science | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Natural Science | $3-4$ |  |
|  | Humanities (Group I) | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $16-17$ |
| Total Hours Required | For Graduation |  | 64 |



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about SCC

## Department

## Speech/Communications

## Office Info

## Office Hours

7:30 a.m.-6:30 p.m. Monday-Thursday
7:30 a.m.-4 p.m. Friday
Office Location
Humanities Building, Room 203
Office Phone Number
636-922-8556
*Many universities require three semesters in one foreign language for a Bachelor of Arts in Communication. The Bachelor of Science (BS) degree does not typically require foreign language. Check with your transfer institution to see which degree best meets your educational and career goals.

For more information call 636-922-8241.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Computer Science Transfer Program Schedule Guide

## Computer Science Transfer Program Schedule Guide

| Degree Name: | Computer Science Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Computer Science |
| Degree Type: | Associate of Arts Degree |




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about SCC

## Department

Computer Science - Multimedia and Web Design

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Security C.S.
- Cyber Security A.A.S.
- Data Management C.A.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.


## Program Contact

Jane O'Donnell
636-922-8594
jodonnell@stchas.edu



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## Degree Info.

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Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Criminal Justice
Transfer Program Schedule Guide

## Criminal Justice Transfer Program Schedule Guide



What Is the Criminal Justice Transfer Program?

This transfer program focuses on the criminal justice system, its organizational components and processes and its legal and public policy contexts. It includes instruction in criminal law and policy, police and correctional systems organization, the administration of justice and the judiciary and public attitudes regarding criminal justice issues.

## Occupation Overview

Criminal Justice graduates may enter fields ranging from protective services, law enforcement and criminology.

## Learn more from SCC Career Services

## Criminal Justice - Transfer Careers

Graduates with a Bachelor of Science degree (B.S.) in criminal justice are employed in a broad range of careers including, but not limited to: alcohol and

## Salary Outlook

In the state of Missouri, employees working in the criminal justice field earn a mean average of 37,200 per year, depending on education, experience and employer Source: Bureau of Labor Statistics


Department

Criminal Justice

## Related Degrees/ Certificates

- Law Enforcement A.A.S.
- Law Enforcement C.A.


## Program Contact

## David Van Mierlo

636-922-8253
dvanmierlo@stchas.edu
Office Coordinator

Margaret O'Dea 636-922-8398<br>modea@stchas.edu

## Office Info

drug abuse assistance coordinator, antiterrorism intelligence agent, arbitrator, ballistics expert, border patrol agent, child support investigator, child support services worker, computer security specialist, court reporter, criminal investigator, emergency management specialist, fraud investigator, harbor, lake and waterways police, hearing officer, mediator, narcotics investigator, parole officer, police artist, police officer, probation officer and substance abuse counselor.

According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

| Degree Name: | Criminal Justice Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Criminal Justice |
| Degree Type: | Associate of Arts Degree |

Italicized courses are recommended to be taken for elective credits.
First Semester

| ENG 101 | English Composition I | 3 |  |
| :--- | :--- | :--- | :--- |
| MAT 155, 158, or <br> higher | Contemporary College Math, College Algebra | $3-4$ |  |
|  | Social Science (Group I) | 3 |  |
|  | Social Science (Group II) | 3 |  |
| CRJ 140 | Introduction to Criminal Justice | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  | TOTAL |  | $16-$ |

## Second Semester

| ENG 102 | English Composition II | 3 |  |
| :---: | :---: | :---: | :---: |
|  | Multicultural/Valuing | 3 |  |
|  | Computer Science | 3 |  |
|  | Humanities (Group I) | 3 |  |
| CRJ 205 | Juvenile Justice System | 3 |  |
|  | TOTAL |  | 15 |
| Third Sem |  |  |  |
|  | Natural Science | 3-4 |  |
|  | Humanities (Group II) | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
| CRJ 202 | Correctional Institutions | 3 |  |
|  | Humanities | 3 |  |
|  | TOTAL |  | $\begin{aligned} & 15- \\ & 16 \end{aligned}$ |
| Fourth Se |  |  |  |
|  | Natural Science With Lab | 3-4 |  |
| SPE 101 | Oral Communication | 3 |  |
|  | Social Science (Group I or II) | 3 |  |
| CRJ 265 | Internship or transferable elective* | 3 |  |
| CRJ 201 | Criminal Justice: Politics and Policy | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $\begin{aligned} & 16- \\ & 17 \end{aligned}$ |
| Total Hours Required For Graduation |  |  | 64 |

*See Dave VanMierlo, Criminal Justice Department Chair, for details on arranging an internship.

For more information call 636-922-8241.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates » Economics Transfer Program Schedule Guide

## Economics Transfer Program Schedule Guide

| Degree Name: |  | Economics Transfer Program Schedule Guide |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Degree or Program: |  | Economics |  |  |
| Degree Type: |  | Associate of Arts Degree |  |  |
| First Semester |  |  |  |  |
| $\begin{aligned} & \text { ENG } \\ & 101 \end{aligned}$ | English Composition I |  | 3 |  |
| $\begin{aligned} & \text { MAT } \\ & 162 \end{aligned}$ | College Algebra - STEM |  | 4 |  |
| Social Science (Group I) |  |  | 3 |  |
| Humanities (Group I) |  |  | 3 |  |
| Social Science - ECO 110 |  |  | 3 |  |
| $\begin{aligned} & \mathrm{COL} \\ & 101 \end{aligned}$ | College Success Seminar |  | 1 |  |
|  | TOTAL |  |  | 17 |
| Second Semester |  |  |  |  |
| ENG <br> 102 | English Composition II |  | 3 |  |
|  | MAT 180 or MAT 210 or Foreign Language 101 or other course(s) in major for transfer institution+ |  | 4 5 |  |
|  | Humanities (Group II) |  | 3 |  |
|  | Social Science -- ECO 120 |  | 3 |  |
| $\begin{aligned} & \text { SPE } \\ & 101 \end{aligned}$ | Oral Communication |  | 3 |  |
|  | TOTAL |  |  | $\begin{aligned} & 16- \\ & 17 \end{aligned}$ |

## Third Semester

|  | MAT 230 or Foreign Language 102 or other course(s) in major for <br> transfer institution+ | $4-$ |  |
| :--- | :--- | :--- | :--- |
|  | Multicultural/Valuing | 5 |  |
|  | Natural Science (Group I) | 3 |  |
| ECO <br> 220 | Money and Banking | 4 |  |
|  | TOTAL | 3 |  |
| Fourth Semester | $13-$ <br> 15 |  |  |
|  | MAT 240 or Foreign Language 201 or other course(s) in major for <br> transfer institution+ | $4-$ |  |
|  | Humanities | 5 |  |



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## Department

Economics/Finance

## Related Degrees/

 Certificates- Banking/Finance C.S.


## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday

## Office Location

Technology Building, Room 205
Office Phone Number
636-922-8419

|  | Natural Science (Group II) | $3-$ |  |
| :--- | :--- | :--- | :--- |
|  |  | 4 |  |
|  | Computer Science Requirement | 3 |  |
| COL <br> 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL | $14-$ <br> 16 |  |
| Total Hours Required for Graduation | 64 |  |  |
| +Most universities require three semesters in one foreign language for a Bachelor of Arts |  |  |  |
| Degree. MAT 210 is recommended for students earning a Bachelor of Science Degree. In |  |  |  |
| addition, the calculus sequence is recommended for students planning to continue on to |  |  |  |
| graduate school. |  |  |  |
| For more information call 636-922-8241. |  |  |  |



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Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » English Transfer Program Schedule Guide

## English Transfer Program Schedule Guide

| Degree Name: | English Transfer Program Schedule Guide |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Degree or Program: | English/Literature |  |  |
| Degree Type: | Associate of Arts Degree |  |  |
| Italicized courses are recommended to be taken for elective credits. <br> First Semester |  |  |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 155, 158 or higher | Contemporary College Math, College Algebra | $3-4$ |  |
|  | Humanities/Foreign Language * | $3-4$ |  |
|  | Social Science (Group I) | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  | Natural Science | 3 |  |
|  | TOTAL | $16-1$ |  |


| Second Semester |  |  |  |
| :--- | :--- | :--- | :--- |
| ENG 102 | English Composition II | 3 |  |
| LIT 250 | Survey of English Literature before 1800 | 3 |  |
|  | Social Science | 3 |  |
|  | Humanities/Foreign Language * | $3-4$ |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | TOTAL |  | $15-$ <br> 16 |
| Third Semester | Natural Science and Lab | 4 |  |
|  | Multicultural/Valuing/Foreign Language | $3-4$ |  |
|  | Oral Communication | 3 |  |
| SPE 101 | American Literature from 1629-1865 | 3 |  |
| LIT 210 | Survey of English Literature after 1800 | 3 |  |
| LIT 260 | TOTAL |  | 16 - |
|  |  | 17 |  |


| Fourth Semester | Computer Science | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Social Science (Group II) | 3 |  |
|  | American Literature from 1865-Present | 3 |  |
| LIT 220 | Course(s) in major for transfer institution | 3 |  |
|  | Humanities (Group I) | 3 |  |
|  | Sophomore Portfolio Assessment | 1 |  |
| COL 299 |  |  |  |



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about SCC

## Department

## English/Literature

## Program Contact

Jacqueline Gray
636-922-8569
jgray@stchas.edu

## Office Coordinator

Shannon Beahan
636-922-8254
sbeahan@stchas.edu

## Office Info

## Office Hours

8 a.m. $-4: 30$ p.m.
Monday-Friday
Office Location
Humanities Building, Room 203
Office Phone Number
636-922-8254

## English Transfer Program Schedule Guide | SCC Pathway

| TOTAL | 16 |
| :--- | :--- |
| Total Hours Required For Graduation | 64 |

* Many universities require three semesters in one foreign language for a Bachelor of Arts Degree; a Bachelor of Science (BS) degree does not typically require foreign language. Check with your transfer institution to see which degree best meets your educational and career goals.

For more information call 636-922-8241.


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Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Foreign Language Transfer Program (French, German, Spanish) Schedule Guide

| Foreign Language Transfer Program (French, |
| :--- |
| German, Spanish) Schedule Guide |
| Degree Name: |
| Foreign Language Transfer Program (French, German, Spanish) <br> Schedule Guide |
| Degree or <br> Program: |
| Foreign Language |
| Degree Type: | Associate of Arts Degree |  |
| :--- |

Italicized courses are recommended to be taken as Elective credits.

| First Semester | English Composition I | 3 |  |
| :--- | :--- | :--- | :--- |
| ENG 101 | Contemporary College Math, College Algebra | $3-4$ |  |
| MAT 155,158, or higher | Foreign Language 101 | 4 |  |
|  | Social Science (Group I) | 3 |  |
|  | College Success Seminar | 1 |  |
| COL 101 | TOTAL |  | $14-$ |

## Second Semester

| ENG 102 | English Composition II | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Foreign Language 102 | 4 |  |
|  | Natural Science | 3 |  |
|  | Social Science (Group II) | 3 |  |
|  | Course(s) in major for transfer institution | $3-4$ |  |
|  | Total |  | $16-$ <br> 17 |

Third Semester

|  | Natural Science and Lab | 4 |  |
| :--- | :--- | :--- | :--- |
|  | Foreign Language 201 | 4 |  |
|  | Course(s) in major for transfer institution | 3 |  |
| SPE 101 | Oral Communication | 3 |  |
|  | Social Science | 3 |  |
|  | TOTAL |  | 17 |
| Fourth Semester |  | 3 |  |
|  | Multicultural/Valuing | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Humanities (Group I) | 3 |  |
|  | Computer Course | 4 |  |
|  | Foreign Language 202 |  |  |



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## Department

## Foreign Language

## Program Contact

Denise McCracken
636-922-8447
dmccracken@stchas.edu

## Office Coordinator

## Karen Murray <br> 636-922-8556 <br> kmurray@stchas.edu

## Office Info

## Office Hours

8:30 a.m.-5:30 p.m. Monday-Thursday
8:30 a.m.-2:30 p.m. Friday

## Office Location

Humanities Building, Room 203
Office Phone Number
636-922-8556

| COL 299 | Sophomore Portfolio Assessment | 1 |  |
| :--- | :--- | :--- | :--- |
|  | TOTAL |  | $\mathbf{1 7}$ |
| Total Hours Required For Graduation |  | $\mathbf{6 4}$ |  |
| For more information call 636-922-8241. |  |  |  |



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## Degree Info.

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## - Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates » Geography Transfer Program Schedule Guide

## Geography Transfer Program Schedule Guide

| Degree Name: | Geography Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Geography |
| Degree Type: | Associate of Arts Degree |


| Italicized courses are recommended to be taken for elective credits. |  |  |  |
| :--- | :--- | :--- | :--- |
| First Semester |  |  |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 155, 158, or higher | Contemporary College Math, College Algebra | $3-4$ |  |
| GEO 100 | Principles of Geography | 3 |  |
|  | Humanities * | $3-4$ |  |
|  | Social Science | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  | TOTAL |  | $16-18$ |


| Second Semester |  |  |  |
| :--- | :--- | :--- | :--- |
| ENG 102 | English Composition II | 3 |  |
| SPE 101 | Oral Communication | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Social Science (Group I) | 3 |  |
|  | Humanities * | $3-4$ |  |
|  | TOTAL |  | $15-16$ |

Third Semester

| GEO 101 | Geography: The Eastern World | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Natural Science with Lab | 4 |  |
|  | Multicultural/Valuing* | $3-4$ |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Computer Science | 3 |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ |

Fourth Semester

|  | Course(s) in major for transfer institution | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Natural Science | 3 |  |
| GEO 102 | Geography: The Western World | 3 |  |
|  | Humanities - Group I | 3 |  |
|  | Social Science | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $\mathbf{1 6}$ |
| Total Hours Required For Graduation |  | $\mathbf{6 4}$ |  |



FIND OUT MORE!
about SCC

## Department

## Geography

## Program Contact

Ellen Wilson
636-922-8531
ewilson@stchas.edu

## Office Info

## Office Hours

Monday-Friday
7:45 a.m.-4:15 p.m.

## Office Location

Social Sciences Building, Room 1104
Office Phone Number
636-922-8398

* Many universities require 3 semesters in one foreign language for a Bachelor of Arts

Degree; a Bachelor of Science (BS) degree does not typically require foreign language.
Check with your transfer institution to see which degree best meets your educational and career goals.

For more information call 636-922-8241.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates » History Transfer Program Schedule Guide

## History Transfer Program Schedule Guide

| Degree Name: | History Transfer Program Schedule Guide |  |  |
| :---: | :---: | :---: | :---: |
| Degree or Program: | History |  |  |
| Degree Type: | Associate of Arts Degree |  |  |
| Italicized courses are recommended to be taken for elective credits. |  |  |  |
| First Semester |  |  |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 155, 158, or higher | Contemporary College Math, College Algebra | 3-4 |  |
| HIS 101 | U.S. History to 1877 | 3 |  |
|  | Humanities * | 3-4 |  |
|  | Multicultural/Valuing | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  | TOTAL |  | 16-18 |
| Second Semester |  |  |  |
| ENG 102 | English Composition II | 3 |  |
| HIS 102 | U.S. History Since 1877 | 3 |  |
|  | Humanities (Group I) | 3 |  |
|  | Humanities * | 3-4 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | TOTAL |  | 15-16 |
| Third Semester |  |  |  |
|  | Natural Science with Lab | 4 |  |
| HIS 145 | Western Civilization Ancient \& Medieval | 3 |  |
|  | Elective/Foreign Language * | 3-4 |  |
| SPE 101 | Oral Communication | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | TOTAL |  | 16-17 |
| Fourth Semester |  |  |  |
|  | Natural Science | 3 |  |
| HIS 146 | Western Civilization Modern Europe | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Computer Science | 3 |  |
|  | Social Science (Group II) | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | 16 |
| Total Hours Required For Graduation |  |  | 64 |



FIND OUT MORE!
about SCC

## Department

## History

## Program Contact

Debra Crank-Lewis 636-922-8324 dcrank-lewis@stchas.edu

## Office Coordinator

Margaret O'Dea
636-922-8398
modea@stchas.edu

## Office Info

## Office Hours

7:45 a.m.-4:15 p.m.
Monday-Friday
Office Location
Social Sciences Building, Room 1104

## Office Phone Number

636-922-8398

* Many universities require three semesters in one foreign language for a Bachelor of Arts Degree; a Bachelor of Science (BS) degree does not typically require foreign language. Check with your transfer institution to see which degree best meets your educational and career goals.

For more information call 636-922-8241.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans.

Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates » Liberal
Arts/Undecided Transfer Program Schedule Guide

## Liberal Arts/Undecided Transfer Program Schedule Guide

| Degree Name: | Liberal Arts/Undecided Transfer Program Schedule Guide |  |  |
| :--- | :--- | :--- | :--- |
| Degree or Program: | Liberal Arts |  |  |
| Degree Type: | Associate of Arts Degree |  |  |
| Italics courses are recommended to be taken as elective credits. | 3 |  |  |
| First Semester |  | $3-4$ |  |
| ENG 101 | English Composition I | 1 |  |
| MAT 155, 158 or higher | Contemporary College Math, College Algebra | 3 |  |
| COL 101 | College Success Seminar | 3 |  |
|  | Elective Course+ | 3 |  |
|  | Social Science-Group I |  | $16-$ |
|  | Humanities Course-Group I | 17 |  |
|  | TOTAL |  |  |


| Second Semester |  |  |  |
| :--- | :--- | :--- | :--- |
| ENG 102 | English Composition II | 3 |  |
|  | Natural Science with Lab | 4 |  |
|  | Elective | 3 |  |
|  | Multicultural/Valuing/Foreign Language* | $3-4$ |  |
| SPE 101 | Oral Communications | 3 |  |
|  | TOTAL |  | $16-$ |
| Third Semester |  | 17 | Electives |
|  | Sumanities/Foreign Language * | 6 |  |
|  | Computer Science | $3-4$ |  |
|  | TOTAL | 3 |  |
|  |  | 3 |  |
|  |  | $15-$ |  |

Fourth Semester

|  | Social Science | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Humanities/Foreign Language * | $3-4$ |  |
|  | Natural Science Course | 3 |  |
|  | Elective Courses | 6 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $16-$ |

Apply now!
*Most universities require three semesters in one foreign language for a Bachelor of Arts Degree. A Bachelor of Science does not typically require foreign language. Check with your transfer institution to see which degree best meets your educational and career goals.

UNDECIDED MAJORS - HELP IS AVAILABLE FOR CAREER GUIDANCE! Students who are undecided about their majors should take the Career Development course as soon as possible in order to acquire good decision-making skills in the career choice process. Undecided students who choose not to take the career course may call 636-9228241/8246 to set up individual appointments for career guidance. Choosing your major early in college allows you to take appropriate courses that will transfer toward a Bachelor's Degree.

For more information call 636-922-8241/8246.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Mathematics Transfer Program Schedule Guide

## Mathematics Transfer Program Schedule Guide

| Degree Name: | Mathematics Transfer Program Schedule Guide |  |  |
| :--- | :--- | :--- | :--- |
| Degree or Program: | Mathematics |  |  |
| Degree Type: | Associate of Arts Degree |  |  |
| Italicized courses are recommended to be taken for elective credit. |  |  |  |
| First Semester |  | 3 |  |
| ENG 101 | English Composition I | 3 |  |
|  | Social Science (Group I) | 1 |  |
| COL 101 | College Success Seminar | $3-4$ |  |
|  | Humanities/Foreign Language * |  |  |
| MAT 180 | Calculus \& Anaytical Geometry I | 5 |  |
|  | TOTAL |  | $15-16$ |
|  |  |  |  |

## Second Semester

| ENG 102 | English Composition II | 3 |  |
| :--- | :--- | :--- | :--- |
| SPE 101 | Oral Communications | 3 |  |
|  | Humanities/Foreign Language * | 3 |  |
|  | Social Science (Group II) | 3 |  |
| MAT 230 | Calculus \& Analytical Geometry II | 5 |  |
|  | TOTAL |  | $17-18$ |
| Third Semester |  |  |  |
|  | Multicultural/Valuing/Foreign Language* | $3-4$ |  |
|  | Lab Science | $3-4$ |  |
| MAT 242 | Intro to Linear Algebra OR Elective | 3 |  |
| MAT 240 | Calculus \& Analytical Geometry III | 5 |  |
|  | TOTAL |  |  |
|  |  | $14-16$ |  |
|  |  |  |  |

Fourth Semester

|  | Humanities Course (Group I) | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Computer Science | 3 |  |
|  | Natural Science | $3-4$ |  |
|  | Social Science | 3 |  |
| MAT 250 | Differential Equations | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ |



## FIND OUT MORE!

about SCC

## Department

## Mathematics

## Office Coordinator

Phyllis Marchand
636-922-8496
phyllis_marchand@stchas.edu

## Office Info

## Office Hours

8 a.m. $-4: 30$ p.m. Monday-Friday

## Office Location

Administration Building, Room 2242

## Office Phone Number

636-922-8496

|  |  |  |
| :--- | :--- | :--- |
| Total Hours Required For Graduation | 64 |  |
| *Check with transfer institution for foreign language requirement for mathematics majors. A |  |  |
| Bachelor of Arts Degree requires 3 semesters of the same foreign language. A Bachelor |  |  |
| of Science does not usually require foreign language. |  |  |
| For more information call 636-922-8241. |  |  |



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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Music Major (Voice, Piano, or Instrumental) Transfer Program Schedule Guide

## Music Major (Voice, Piano, or Instrumental) Transfer Program Schedule Guide

| Degree Name: | Music Major (Voice, Piano, or Instrumental) Transfer Program <br> Schedule Guide |  |  |
| :--- | :--- | :--- | :--- |
| Degree or <br> Program: | Music |  |  |
| Degree Type: | Associate of Arts Degree | 3 |  |
| First Semester |  | 1 |  |
| MUS 131 | Music Theory I | 1 |  |
| MUS 133 | Ear Training and Sight Singing I | 1 |  |
|  | Large Ensemble I | 2 |  |
| MUS 119 | Piano Proficiency I | 1 |  |
|  | Applied Music I | 3 |  |
| COL 101 | College Success Seminar | 0 |  |
|  | Multicultural Valuing | 3 |  |
| MUS 021 | Recital and Concert Attendance | 3 |  |
|  | Social Science-Group II | $18^{*}$ |  |
| ENG 101 | English Composition I | TOTAL | 1 |


| Second Semester |  | 3 |  |
| :--- | :--- | :--- | :--- |
| MUS 132 | Music Theory II | 1 |  |
| MUS 134 | Ear Training \& Sight Singing II | 1 |  |
|  | Large Ensemble II | 2 |  |
|  | Applied Music II | 3 |  |
| MAT 155, 158 <br> or higher | Contemporary College Math, College Algebra | 3 |  |
| ENG 102 | English Composition II | 3 |  |
|  | Humanities (Group II) | 3 |  |
|  | Social Science-Group II | 0 |  |
| MUS 021 | Recital and Concert Attendance | 1 |  |
| MUS 120 | Piano Proficiency II |  | $20^{*}$ |
|  | TOTAL | 3 |  |
| Third Semester |  | 1 |  |
| MUS 281 | Music Theory III | 1 |  |
| MUS 283 | Ear Training \& Sight Singing III | 2 |  |
|  | Large Ensemble III |  |  |
|  | Applied Music III | 3 |  |



FIND OUT MORE!
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## Department

## Music

## Program Contact

Gene Ditch
636-922-8399 gditch@stchas.edu

## Office Coordinator

## Karen Murray

636-922-8556
kmurray@stchas.edu

## Office Info

## Office Hours

8:00 a.m. - 4:30 p.m. Monday - Friday

## Office Location

Fine Arts Building, Room 106A
Office Phone Number
636-922-8255

| MUS 231 | Music History I | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Computer Science | 3 |  |
| MUS 021 | Recital and Concert Attendance | 0 |  |
| MUS 219 | Piano Proficiency III | 1 |  |
|  | Social Science-Group I | 3 |  |
|  | Natural Science | 3 |  |
|  | TOTAL |  | $\mathbf{2 0}$ |

Fourth Semester

| MUS 282 | Music Theory IV | 3 |  |
| :--- | :--- | :--- | :--- |
| MUS 284 | Ear training \& Sight Singing IV | 1 |  |
|  | Large Ensemble IV | 1 |  |
|  | Applied Music IV | 2 |  |
| MUS 232 | Music History II (Humanities Group I) | 3 |  |
|  | Natural Science with lab | 4 |  |
| MUS 021 | Recital and Concert Attendance | 0 |  |
| MUS 220 | Piano Proficiency IV | 1 |  |
| SPE 101 | Oral Communication | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $19 *$ |
| Total Hours Required For Graduation | 64 |  |  |

MUS 225 - Elements of Conducting is also suggested in the fourth semester for transfer students in music. This can be included if students take general education courses in the summer sessions. Conducting is only offered in the spring semester.

Music courses listed are standard courses for music majors in their first two years at a four-year institution.
*General Education courses may also be taken during the summer semesters to reduce the course load during the regular semesters. Most music courses are not offered during the summer session.

Note: Recommended electives appear in italics.
For more information call 636-922-8539.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Political Science Transfer Program Schedule Guide

## Political Science Transfer Program Schedule Guide

| Degree Name: | Political Science Transfer Program Schedule Guide |  |  |
| :--- | :--- | :--- | :--- |
| Degree or Program: | Political Science |  |  |
| Degree Type: | Associate of Arts Degree |  |  |
| Italicized courses are recommended to be taken for elective credit. |  |  |  |
| First Semester |  | English Composition I | 3 |
| ENG 101 | Contemporary College Math, College Algebra | $3-4$ |  |
| MAT 155, 158, or <br> higher | American Government | 3 |  |
| POL 101 | Humanities/Foreign Language * | 4 |  |
|  | College Success Seminar | 1 |  |
| COL 101 | TOTAL |  | $14-15$ |


| Second Semester |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: | :---: |
| ENG 102 | English Composition II | 3 |  |  |  |
| POL 210 | Comparative Politics | 3 |  |  |  |
|  | Humanities (Group I) | 3 |  |  |  |
|  | Humanities/Foreign Language * | $3-4$ |  |  |  |
|  | Course(s) in major for transfer institution | 6 |  |  |  |
| Third Semester | TOTAL |  | $18-19$ |  |  |
|  | Natural Science with Lab | 4 |  |  |  |
|  | Course(s) in major for transfer institution | 6 |  |  |  |
| SPE 101 | Oral Communication | 3 |  |  |  |
|  | Multicultural/Valuing/Foreign Language* | $3-4$ |  |  |  |
|  | TOTAL |  | 16 -17 |  |  |


| Fourth Semester |  |  |  |
| :--- | :--- | :--- | :--- |
|  | Natural Science | 3 |  |
| POL 201 | International Relations | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Computer Science | 3 |  |
|  | Social Science | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | 16 |
| Total Hours Required For Graduation |  | 64 |  |



FIND OUT MORE!
about SCC

## Department

Political Science

## Program Contact

Ronald Pettus
636-922-8466
rpettus@stchas.edu

## Office Coordinator

Margaret O'Dea
636-922-8398
modea@stchas.edu

## Office Info

## Office Hours

7:45 a.m.-4:15 p.m.
Monday-Friday
Office Location
Social Sciences Building, Room 1104
Office Phone Number
636-922-8398
*Most universities require three semesters of foreign language for the Bachelor of Arts Degree. Check with your transfer institution to see which degree best meets your educational and career goals.

For more information call 636-922-8241.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans.
Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Pre-Health Professions Transfer Program (Medical, Dental, Optometry, Pharmacy, Veterinary) Schedule Guide

## Pre-Health Professions Transfer Program (Medical, Dental, Optometry, Pharmacy, Veterinary) Schedule Guide

| Degree <br> Name: | Pre-Health Professions Suggested Transfer Program (Medical, Dental, <br> Optometry, Veterinary) Schedule Guide |
| :--- | :--- |
| Degree or <br> Program: | Health |
| Degree <br> Type: | Associate of Arts Degree |


| Italicized courses are recommended to be taken for elective credit. |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| First Semester | English Composition I |  |  |  |  |  |
| ENG 101 | Calculus \& Analytic Geometry I | 5 |  |  |  |  |
| MAT 180 | General Biology I | 5 |  |  |  |  |
| BIO 150 | General Chemistry I | 5 |  |  |  |  |
| CHM 115 | College Success Seminar | 1 |  |  |  |  |
| COL 101 | TOTAL |  | 18 |  |  |  |
|  |  |  | 18 |  |  |  |

## Second Semester

| ENG 102 | English Composition II | 3 |  |  |
| :--- | :--- | :--- | :--- | :--- |
| CHM 116 | General Chemistry II | 5 |  |  |
| BIO 151 | General Biology II | 5 |  |  |
|  | Social Science (Group I) | 3 |  |  |
|  | TOTAL |  | 15 |  |
| Third Semester |  |  |  |  |
| CHM 240 | Organic Chemistry I and |  |  |  |
| CHM 222 | Quantitative Analysis or | $5-6$ |  |  |
| PHY 150/153 | General Physics I with Lab++ | 3 |  |  |
|  | Humanities (Group I) | 3 |  |  |
|  | Social Science | 3 |  |  |
|  | Humanities (Group II) | 3 |  |  |
|  | Computer Science |  |  |  |
| Fourth Semester | TOTAL | $17-18$ |  |  |
| CHM 241/243 | Organic Chemistry II or |  |  |  |
|  |  |  |  |  |



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## Department

Occupational Therapy Assistant Program

## Related Degrees/ Certificates

- Emergency Medical Science A.A.S.
- Health Information Management A.S.
- Nursing A.S.
- Occupational Therapy Assistant A.A.S.
- Practical Nursing C.A.


## Program Contact

## Francesca Woods 636-922-8638 <br> fwoods@stchas.edu <br> Office Coordinator

## Denise Lammers <br> 636-922-8280 <br> dlammers@stchas.edu <br> Office Info

## Office Hours

|  |  |  |  |
| :--- | :--- | :--- | :--- |
| PHY 151/154 | General Physics I with Lab++ | $4-5$ |  |
| SPE 101 | Oral Communications | 3 |  |
|  | Social Science (Group II) | 3 |  |
|  | Humanities | 3 |  |
|  | Multicultural/Valuing | 3 |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $17-18$ |
| Total Hours Required for Graduation |  |  |  |
|  |  |  | 64 |

The student who plans to prepare for one of the areas of pre-health professions needs to contact the school(s) to which helshe plans to apply for admission requirements. Schools vary in their entrance requirements for their programs. The above courses are a general course of study that is common for various health professional schools. A minimum cumulative GPA of 3.0 is advised. Usually, students may major in any field of study, provided they take courses that will also fulfill admission requirements for the professional school. It is wise for students to choose a major field of study that they would want to pursue in the event they do not go to the professional school. Planning for an alterative career is strongly advised as admission to professional schools is highly competitive, highly selective and limited.
++Some professional schools need PHY 240 and 241, College Physics, instead of PHY 150 and 151, General Physics. The Organic Chemistry sequence or Physics sequence should be taken. Whichever sequence is not taken at SCC will need to be taken at the transfer college.

Students who determine their major field of study and transfer institution are in the best position to take appropriate transfer courses at SCC. Generally, courses taken that meet the Associate of Arts Degree requirements are readily accepted by Missouri four-year institutions and meet the general education requirements at many public fouryear institutions. However, some four-year institutions are more strict than others in accepting credits. Consequently, students should contact their transfer institution for final determination of transferability. Should you experience difficulty transferring your SCC coursework to another institution, contact the vice president for student services for assistance with an appeal to the receiving institution.

SCC's 42-semester-hour general education block of credit complies with the statewide general education policy. Students who complete this 42 -hour block of credit will meet the requirement for the 42 -hour block of general education credit for signatory institutions in the state of Missouri . See the CBHE Web
site,http://www.dhe.mo.gov/gectinstitutions.shtml for the list of colleges who will accept the 42-hour block. Courses taken in addition to general education requirements need to be carefully chosen to ensure that each course applies to the baccalaureate graduation requirements for the program of study at the college to which you intend to transfer. It is the transfer student's responsibility to become familiar with the specific major and graduation requirements of the baccalaureate institution to which you intend to transfer.

Students wanting to earn an Associate of Arts Degree are responsible for completing the graduation requirements for the college catalog in effect at the time of their initial enrollment or any subsequent catalog provided the student does not discontinue enrollment for two consecutive semesters (excluding summer) or more Students who discontinue enrollment for two consecutive semesters or more are required to follow the catalog in effect at the time of their return.

The italicized courses are recommended, not required, to be taken for the elective hours needed for the degree. Elective courses should be chosen based on the student's major and transfer institution. COL 101 is required for all first time freshmen taking 9 or more hours in Spring or Fall, or 5 or more hours in Summer.

For more information call 636-922-8241.

8:00 a.m.-4:30 p.m. Monday-Friday. Hours may vary during summer please call to confirm.

## Office Location

Center for Nursing and Allied Health Sciences, Suite 102

## Office Phone Number

636-922-8280


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans.
Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates »

## Psychology/Sociology Transfer Program Schedule Guide

Psychology/Sociology Transfer Program Schedule Guide

| Degree Name: | Psychology/Sociology Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Psychology |
| Degree Type: | Associate of Arts Degree |


| Italicized courses are recommended to be taken for elective credit. |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: |
| First Semester |  |  |  |  |
| ENG 101 | English Composition I | 3 |  |  |
| MAT 155, 158, or <br> higher | Contemporary College Math, College Algebra | $3-4$ |  |  |
| PSY 101 | Introduction to Psychology or | 3 |  |  |
| SOC 101 | Introduction to Sociology | 3 |  |  |
|  | Social Science-Group I | 3 |  |  |
| COL 101 | Humanities Course-Group I | 1 |  |  |
|  | College Success Seminar | TOTAL |  |  |

## Second Semester

| ENG 102 | English Composition II | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Humanities/Foreign Language* | $3-4$ |  |
|  | Course(s) in major for transfer institution | 6 |  |
|  | Natural Science with Lab | 4 |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ |

## Third Semester

| SPE 101 | Oral Communication | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Humanities/Foreign Language* | $3-4$ |  |
|  | Social Science | 3 |  |
|  | Course(s) in major for transfer institution | 6 |  |
|  | TOTAL |  | $15-16$ |
| Fourth Semester |  | 3 |  |
|  | Natural Science | 3 |  |
|  | Computer Science | $3-4$ |  |
|  | Multicultural/Valuing/Foreign Lang.* | 6 |  |
| COL 299 | Course(s) in major for transfer institution | 1 |  |
|  | Sophomore Portfolio Assessment |  | $16-17$ |
| Total Hours Required | For Graduation |  | 64 |
|  | TOTAL |  |  |



FIND OUT MORE!
about SCC

## Department

## Psychology

## Program Contact

## Mitchell Harden

636-922-8495
mharden@stchas.edu

## Office Coordinator

Margaret O'Dea
636-922-8398
modea@stchas.edu

## Office Info

## Office Hours

7:45 a.m.-4:15 p.m.
Monday-Friday

## Office Location

Social Sciences Building, Room 1104

## Office Phone Number

636-922-8398
*Many universities require three semesters of the same foreign language for a Bachelor of Arts (BA) Degree; a Bachelor of Science (BS) degree does not typically require foreign language. Check with your transfer institution to see which degree best meets your educational and career goals.

For more information call 636-922-8241.


Request for Info FAQs Forms \& Applications Map \& Directions Employment Campus Police Site Map Mission Privacy Info


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Social Work Transfer Program Schedule Guide

## Social Work Transfer Program Schedule Guide

| Degree Name: | Social Work Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Social Work |
| Degree Type: | Associate of Arts Degree |


| Italicized courses are recommended to be taken for elective credit. |  |  |  |
| :--- | :--- | :--- | :--- |
| First Semester | English Composition I |  |  |
| ENG 101 | Introduction to Psychology | 3 |  |
| MAT 155, 158 or higher | Contemporary College Math, College Algebra | $3-4$ |  |
| PSY 101 | Introduction to Sociology | 3 |  |
| SOC 101 | College Success Seminar | 3 |  |
| COL 101 | American Government | 1 |  |
| POL 101 | TOTAL | 3 |  |
|  |  |  | $\mathbf{1 6 - 1 7}$ |

## Second Semester

| ENG 102 | English Composition II | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Humanities/Foreign Language* | $3-4$ |  |
| ECO 100 | Survey Economics OR |  |  |
| ECO 110 | Principles of Macroeconomics | 3 |  |
|  | Computer Science | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | TOTAL |  | $\mathbf{1 5 - 1 6}$ |

## Third Semester

|  | Natural Science | 3 |  |
| :--- | :--- | :--- | :--- |
|  | Humanities/Foreign Language* | $3-4$ |  |
|  | Social Science Group I | 3 |  |
| SPE 101 | Oral Communication | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | TOTAL |  | $15-17$ |
| Fourth Semester | Natural Science with Lab | 3 |  |
|  | Humanities (Group I) | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Multicultural/Valuing/Foreign Language* | $3-4$ |  |
|  | Social Science | 3 |  |
|  | Sophomore Portfolio Assessment | 1 |  |
| COL 299 | TOTAL |  | 16 -18 |
|  | Total Hours Required | For Graduation | 64 |



## FIND OUT MORE!

about SCC

## Department

## Sociology

## Program Contact

Vicky Herbel
636-922-8666
vherbel@stchas.edu

## Office Info

## Office Hours

7:45 a.m.-4:15 p.m.
Monday-Friday

## Office Location

Social Sciences Building, Room 1104

## Office Phone Number

636-922-8398
*Proficiency in a single foreign language (Courses 101, 102, 201) is recommended, but not
required by most graduate social work programs.
+Some schools will accept HMS 100, 101 and 102 (all 3 classes should be taken to
transfer as a block).
For more information call 636-922-8241.


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## Degree Info.

The following academic areas of study are included in the College Transfer Program:

Select an area of study and see a schedule guide. These twoyear guides are suggestions to help students in developing their own educational plans. Individual courses may in most cases be taken in different semesters, or the whole program may be stretched out over more than four semesters.

## - Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Theater Transfer Program Schedule Guide
Theater Transfer Program Schedule Guide

| Degree Name: | Theater Transfer Program Schedule Guide |
| :--- | :--- |
| Degree or Program: | Theater/Film |
| Degree Type: | Associate of Arts Degree |


| Italicized courses are recommended to be taken for elective credit. |  |  |  |
| :--- | :--- | :--- | :--- |
| First Semester |  |  |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 155, 158 or higher | Contemporary College Math, College Algebra | $3-4$ |  |
| THE 128 | Fundamentals of Acting | 3 |  |
|  | Course(s) in major for transfer institution | 3 |  |
| THE 122 | Introduction to Theater | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ |


| Second Semester |  |  |  |
| :--- | :--- | :--- | :--- |
| ENG 102 | English Composition II | 3 |  |
|  | Natural Science with Lab | 4 |  |
| SPE 101 | Oral Communication | 3 |  |
| THE 228 | Acting II | 3 |  |
|  | Humanities (Group II)/Foreign Language* | $3-4$ |  |
|  | TOTAL |  | $\mathbf{1 6 - 1 7}$ |


| Third Semester | Humanities/Foreign Language* | $3-4$ |  |
| :--- | :--- | :--- | :--- |
|  | Course(s) in major for transfer institution | 6 |  |
|  | Social Science (Group I) | 3 |  |
|  | Social Science (Group II) | 3 |  |
|  | TOTAL |  | $15-16$ |
| Fourth Semester | Social Science | 3 |  |
|  | Computer Science | 3 |  |
|  | Natural Science | $3-4$ |  |
|  | Course(s) in major for transfer institution | 3 |  |
|  | Multicultural/Valuing/Foreign Language* | $3-4$ |  |
| COL 299 | Sophomore Portfolio Assessment | 1 |  |
|  | TOTAL |  | $16-18$ |
| Total Hours Required | For Graduation | 64 |  |

*Some universities require three semesters in one foreign language, particularly for


## FIND OUT MORE!

about SCC

## Department

## Theater

## Program Contact

Lonna Wilke
636-922-8420
Iwilke@stchas.edu

## Office Coordinator

Shannon Beahan
636-922-8254
sbeahan@stchas.edu

## Office Info

## Office Hours

8:00 a.m. - 4:30 p.m.
Monday - Friday
Office Location
Fine Arts Building
Office Phone Number
636-922-8255

## f『ロ园＋

Associate of Applied Science
Degrees－2014－15
Graduation Requirements
Art
－Graphic Design A．A．S．
Business Administration
－Business Administration A．A．S．
Business Technology
－Business Technology A．A．S．
Child Care \＆Early Education
－Child Care \＆Early Education A．A．S．
Computer－Aided Drafting
－Computer－Aided Drafting（CAD）A．A．S．

## Computer Science

－Computer Programming A．A．S．
－Cyber Security A．A．S．
－Database Management A．A．S．
－Management Information Systems A．A．S．
－Multimedia and Web Design A．A．S．
－Network Security A．A．S．
－Networking A．A．S．
Criminal Justice
－Law Enforcement A．A．S．

## Education

－Child Care \＆Early Education A．A．S．
－Paraprofessional／Substitute Teacher A．A．S．

## Emergency Medical Science

－Emergency Medical Science A．A．S．
General Technology
－General Technology A．A．S．
Graphic Design
－Graphic Design A．A．S．
Health
－Emergency Medical Science A．A．S．
－Occupational Therapy Assistant A．A．S．
Human Service
－General Option A．A．S．
－Gerontology Option A．A．S．
－Substance Abuse Services Option A．A．S．
－Victimology Option A．A．S．
－Youth Services Option A．A．S．

## Multimedia

- Multimedia and Web Design A.A.S.


## Networking

- Networking A.A.S.

Occupational Therapy

- Occupational Therapy Assistant A.A.S.

Skilled Trades

- Skilled Trades A.A.S.

Substance Abuse

- Substance Abuse Services Option A.A.S.

Victimology

- Victimology A.A.S.


## Youth Services

- Youth Services A.A.S.


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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs.
Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Graphic Design A.A.S.

## Graphic Design A.A.S.

| Degree Name: | Graphic Design A.A.S. |
| :--- | :--- |
| Degree or Program: | Graphic Design |
| Degree Type: | Associate of Applied Science Degree |
| Description: <br> Combining traditional art fundamentals with cutting-edge technology, the Graphic Design <br> AAS degree consists of comprehensive coursework that prepares students for a variety <br> of jobs, including Web design, video editing, computer animation, print production, and <br> others. These skills can be applied to many jobs including: <br> - advertising <br> - promotion <br> - printing <br> - broadcast <br> - the cinema |  |

This degree encompasses all current and near-future baseline skills required by graphic employers and includes information and techniques designed to maximize student's employability.
General Education Requirements
24

|  | COURSE <br> NUMBER | COURSE NAME |  |
| :---: | :---: | :---: | :---: |
| Mathematics | MAT 105 | Applied Math | 3 |
| Communication | ENG 101 <br> ENG 102 OR <br> ENG 115 OR <br> ENG 125 <br> SPE 101 | English Composition I <br> English Composition II OR <br> Technical Writing OR <br> Business Writing <br> Oral Communications | 9 |
| Social Science | HIS 101 OR HIS 102 OR HIS 115 OR HIS 270 OR POL 101 OR POL 102 | US History to 1877 OR US History since 1877 OR US History since 1945 OR History of Missouri OR American Government OR State \& Local Government | 3 |
| Natural Science | Any BIO, CHM, PHY |  | 3 |
| Humanities | Any ART <br> BUS 105 or <br> CPT 105 <br> DAN 196, 197, <br> 198, 199 <br> EDU 125 <br> Any LIT <br> Any MUS <br> Any PHL |  | 3 |



FIND OUT MORE!
about SCC

## Department

## Art

## Related Degrees/ Certificates

- Art/Graphic Design Transfer Program Schedule Guide
- Print Media C.S.


## Office Info

## Office Hours

8:30 a.m.-5:30 p.m.
Monday-Thursday

8:30 a.m.-2:30 p.m.
Friday

## Office Location

Visual Arts Building

## Office Phone Number

636-922-8556

|  | Any THE <br> Any Foreign <br> Language |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Elective | Any ANT <br> Any ART <br> Any BIO <br> Any CHM <br> BTC/CPT 103 <br> OR <br> CPT 115 OR <br> EDU 125 OR <br> EDU 220 <br> Any ECO <br> Any ENG <br> Any GEO <br> Any HIS <br> Any LIT <br> Any MAT <br> Any MUS <br> Any PHE <br> Any PHL <br> Any POL <br> Any PSY <br> Any SOC <br> Any SPE <br> Any THE |  | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 40 |
|  | ART 110 | Drawing I | 3 |  |
|  | ART 120 | Drawing II | 3 |  |
|  | ART 150 | Art History I | 3 |  |
|  | ART 170 | Design I | 2 |  |
|  | ART 180 | Design II | 2 |  |
|  | ART 190 | Macintosh Basics | 2 |  |
|  | ART 285 | Sculpture I | 3 |  |
|  | ART 290 | Page Layout on the Macintosh | 4 |  |
|  | ART 291 | Digital Imaging | 3 |  |
|  | ART 292 | Graphic Design for the Web | 3 |  |
|  | ART 293 | Video Production and Protfolio <br> Development (capstone embedded) | 3 |  |
|  | ART 220 | Black and White Photography I | 3 |  |
|  | ART 260 | Printmaking I | 3 |  |
|  | ART 270 | Commercial Illustration I | 3 |  |
| ELECTIVE COURSES: |  |  |  | 3 |
|  | Any ART |  | 3 |  |
| TOTAL REQUIRED HOURS |  |  |  | 67 |
| Courses by Semester |  |  |  |  |
| FALL SEMESTER |  |  |  | 13 |
| COURSE NUMBER |  | COURSE NAME | CH |  |
| ART 110 |  | Drawing I | 3 |  |
| ART 170 |  | Design I | 2 |  |
| ART 150 |  | Art History I | 3 |  |
| ART 190 |  | Macintosh Basics | 2 |  |
| ENG 101 |  | English Composition I | 3 |  |


| SPRING SEMESTER |  |  | 14 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| ART 190 | Design II | 2 |  |
| ART 290 | Page Layout on the Macintosh | 3 |  |
| ENG 115 OR <br> ENG 125 | Technical Writing Business Writing | 3 |  |
| MAT 105 | Applied Math | 3 |  |
| $\begin{aligned} & \text { PSY } 101 \text { OR } \\ & \text { SOC } 101 \end{aligned}$ | Intro to Psychology Intro to Sociology | 3 |  |
| SUMMER SEMESTER |  |  | 9 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ART 120 | Drawing II | 3 |  |
| ART 291A | Digital Imaging | 3 |  |
| Any ART | Art Elective | 3 |  |
| FALL SEMESTER |  |  | 15 |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIS or POL |  | 3 |  |
| ART 285 | Sculpture | 3 |  |
| ART 270 | Commercial Illustration | 3 |  |
| PHL 160 | Ethics | 3 |  |
| ART 292A | Graphic Design for the Web | 3 |  |
| SPRING SEMESTER |  |  | 15 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ART 260 | Printmaking I | 3 |  |
| ART 220 | Black and White Photography I | 3 |  |
| SPE 101 | Oral Communications | 3 |  |
| ART 293 | Video Production and Portfolio Development | 3 |  |
|  | Natural Science | 3 |  |



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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Business

## Administration A.A.S

## Business Administration A.A.S.



## What Is Business Administration A.A.S.?

This associate degree program provides students with a basic knowledge of business administration. Business administration students choose an area of focus - accounting, banking and finance, management or marketing.

Depending on the student's focus, instruction includes management theory, human resources management and behavior, accounting and other quantitative methods, purchasing and logistics,
organization and production, marketing and business decision-making.
A.A.S. graduates are prepared to enter the workforce.

## Occupation Overview

Business administration graduates with an A.A.S. degree may enter fields including accounting, general business, banking and finance, management or marketing.

## Learn more from SCC Career Services

## Business Administration Careers

SCC graduates with an Associate of Applied Science (A.A.S.) degree in

## Occupational Outlook

Because of the multitude of careers in this field, the outlook is varied. Positions that have a bright outlook include accounting clerk, business service specialist, construction manager, estimator, financial worker, management consultant, market research analyst, medical records administrator and purchasing agent. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in high-growth industries.

For most jobs, the outlook for growth is strong.

livestock purchasing manager, marina boat charter administrator, medical records administrator, non-retail sales supervisor, office supervisor, property manager,

Apply
a now!

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about SCC

## Success Story

## Erik Vasquez

"SCC has made the transition from high school to college a lot easier. I have a great opportunity to do something successful with my life."

Full Story

## Department

## Business Administration - Accounting

## Related Degrees/

## Certificates

- Accounting C.S.
- Banking/Finance C.S.
- Business Administration C.A.
- Business Transfer Program Suggested Schedule Guide
- Management C.S.
- Marketing C.S.


## Program Contact

business administration are employed in a broad range of careers including, but not limited to: accounting clerk, benefits manager, budget analyst, camp director, casino manager, catering administrator, compensation specialist, contract administrator, credit analyst, customer service supervisor, employment and placement specialist, employment interviewer, estimator, farm management advisor, finance manager, financial services sales agent, fish hatchery manager, golf course manager, insurance adjuster, insurance claim examiner,
purchasing agent, restaurant manager, social service volunteer, title examiner, traffic administrator and transportation supervisor.

## Salary Outlook

In the state of Missouri, employees working in business earn a mean average of \$32,900-63,090 per year, depending on education, experience and employer. Source: Bureau of Labor Statistics

According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

| Degree Name: | Business Administration A.A.S. |
| :--- | :--- |
| Degree or Program: | Business Administration |
| Degree Type: | Associate of Applied Science Degree |
| Description: <br> New jobs in business are being created every day. People with broad-based business |  | training will have many career doors open to them.

SCC's Business Administration programs begins with the basics. There are general education courses in communication, humanities, social sciences, mathematics and science. The college offers basic business courses to develop knowledge and skills in accounting, economics, finance, marketing and management. Advanced courses are also available in each of these concentrations. This extensive business education will broaden horizons, encourage maturity and enable you to handle unique situations as they arise in your career.

Students who enroll in Business Administration programs at St. Charles Community College may complete the first two years of work toward a bachelor's degree at a fouryear college or university. To move into or move up in your career quickly, SCC offers a two-year Associate of Applied Science degree or a one-year Certificate of Achievement.

| General Education Requirements |  |  |  | 31 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 121*** | Intermediate Algebra (or higher) | 4 |  |
| Communication | ENG 101*** <br> ENG 115 or <br> ENG 125 <br> SPE 101 | English Composition I <br> Technical Writing or Business Writing Oral Communication | 3 3 3 |  |
| Social Science | HIS 101 or 102 or 115 or POL 101 or 102\# | US History or American Government | 3 |  |
| Natural Science | Any BIO, CHM, PHY\# |  | 3 |  |
| Humanities | BUS 105 | Business Ethics | 3 |  |
| Electives | $\text { ECO } 110$ <br> Any 2 from ACT, BUS, ECO, MAT 175 , or GEO 120 | Principles of Macroeconomics* | 3 6 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 26 |
|  | ACT 110*** | Financial Accounting I | 4 |  |
|  | ACT 130 | Managerial Accounting I | 3 |  |
|  | BUS 101 | Introduction to Business | 3 |  |
|  | BUS 201 | Principles of Management | 3 |  |
|  | BUS 220 | Principles of Finance | 3 |  |

Ginny Tiller
636-922-8334
gtiller@stchas.edu

## Office Info

## Office Hours

Monday-Friday
7:30 a.m.-4 p.m.

## Office Location

Technology Building, Room 205

Office Phone Number
636-922-8419

|  | BUS 230 | Principles of Marketing | 3 |
| :--- | :--- | :--- | :--- |
|  | BUS 298 | Business Administration <br> Capstone | 1 |
|  | CPT/BTC(BAS) 103 or <br> CPT 115 | Microcomputer <br> Applications <br> Intro to Data Processing | 3 |
|  | ECO 120 | Principles of <br> Microeconomics* | 3 |


| Choose one of the following options: |  |  |  | 9 |
| :---: | :---: | :---: | :---: | :---: |
| Management Option: | BUS 204 | Total Quality Operations Management | 3 |  |
|  | BUS 206 | Human Resource Management | 3 |  |
|  | BUS 210 | Organizational Behavior | 3 |  |
| Marketing Option: | BUS 232 | Advertising/Sales Promotion | 3 |  |
|  | BUS 236 | Consumer Behavior | 3 |  |
|  | BUS 238 | Personal Selling | 3 |  |
| Accounting Option: | ACT 115 | Computerized Accounting | 3 |  |
|  | ACT 210 | Intermediate Accounting I | 3 |  |
|  | ACT 240 | Individual Income Tax Accounting | 3 |  |
| Finance Option: | ACT 105 | Personal Accounting and Finance | 3 |  |
|  | ECO 220 | Money and Banking | 3 |  |
|  | Elective from ACT, BUS, ECO, GEO 120 or MAT 175 |  | 3 |  |

## TOTAL REQUIRED HOURS

*Has a prerequisite of MAT 098 Beginning Algebra or assessment placement of Intermediate Algebra.
**ACT 110 also has a prerequisite of ACT 101, high school accounting or departmental approval.
***The Academic Skills Assessment is required before enrolling in math or English courses. If a student places into lower-level courses than are required for his/her degree, then the student needs to first enroll in such courses before enrolling in the required courses.
\#Specific courses required for humanities, natural sciences and social science can be found in the College Catalog under Associate of Applied Science degree graduation requirements.

For more information, call 636-922-8334.
Courses by Semester

| FIRST SEMESTER |  | 16 |  |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME |  |  |
| ENG 101 | English Composition I*** | 3 |  |
| ACT 110 | Financial Accounting I** | 4 |  |
| BUS 101 | Intro to Business | 3 |  |
| SPE 101 | Oral Communication | 3 |  |
| CPT 103 or <br> CPT 115 | Microcomputer Applications or <br> Intro to Data Processing | 3 |  |
| SECOND SEMESTER |  |  | $\mathbf{1 6}$ |


| COURSE NUMBER | COURSE NAME | CH |
| :---: | :---: | :---: |
| ACT 130 | Managerial Accounting | 3 |
| ECO 110 | Macroeconomics | 3 |
| MAT 121 | Intermediate Algebra or higher*** | 4 |
| BUS 201 | Principles of Management | 3 |
| BUS 230 | Principles of Marketing | 3 |
| THIRD SEMESTER |  |  |
| COURSE NUMBER | COURSE NAME | CH |
| ENG 115 or ENG 125 | Technical Writing or Business Writing | 3 |
| Social Sciences\# | HIS 101, or 102, or 115, or POL 101, or 102 | 3 |
| Natural Sciences\# | Any BIO, or CHM, or PHY | 3 |
| Elective | Any ACT, BUS, MAT 175, GEO 120, or ECO | 3 |
| BUS 220 | Principles of Finance | 3 |
|  | BUS Program Option (see above) | 3 |
| FOURTH SEMESTER |  |  |
| COURSE NUMBER | COURSE NAME | CH |
| ECO 120 | Principles of Microeconomics | 3 |
| BUS 105 | Business Ethics | 3 |
| Elective | Any ACT, BUS, ECO, MAT 175 or GEO 120 | 3 |
|  | Pick 2 BUS Program Options (see above) | 6 |
| BUS 298 | Business Administration Capstone | 1 |
| Total Hours Required for Graduation |  |  |



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## Degree Info.

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- Graduation Requirements
- High School Articulation Agreements

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## Technology A.A.S.

## Business Technology A.A.S.



## What Is BTC

The Business Technology (BTC) program at St. Charles Community College addresses a combination of business and technology skills. The BTC program provides training in all facets of Microsoft Office, desktop publishing, office operations and customer service. Students will also learn to apply skills in time management, personal organization, supervision and administration in the workplace.

Every industry needs professionals who are trained to use today's technology in an office environment. No matter where a student's interest lies, whether it's the medical, legal, music, publishing, agriculture, education or other fields, there is a need for people who are competent using office software, managing projects and dealing with customers, vendors and other employees.

Instructors are committed to assisting students by keeping all course content, equipment and teaching methods current. This ensures better applied learning so students are successful in Business Technology career fields and can be placed in high-paying positions. Courses are offered online, on campus and in a hybrid format.

```
Learn more from SCC Career Services
```


## BTC Careers

A broad range of careers are possible and

## Occupational Outlook

Because of the diverse careers in this field, the outlook is varied. For most jobs in an office setting, the outlook is for growth from years 2012 to 2021 is between 12 and 16 percent.

Nearly all students who were seeking employment in a related area found jobs within 180 days of graduation.


## Theresa Boyd

"I've learned so much at Environmental Management Corporation; it's the best job l've ever had. And I'm here thanks to SCC."

Full Story
Brenda Kearns

"I knew I had discovered both the program and the direction in which I wanted to go."

Full Story

## Department

## Related Degrees/ Certificates

[^0]include, but are not limited to: administrative assistant, assistant director, buyer, developmental coordinator, executive secretary, hotel clerk, human resources assistant, legal secretary, medical secretary, municipal clerk, office manager, program assistant, receptionist, secretary, customer service representative, front desk clerk, receptionist, telephone operator, warranty administrator, clerical assistant and desktop publisher.

| Degree Name: | Business Technology A.A.S. |
| :--- | :--- |
| Degree or Program: | Business Technology |
| Degree Type: | Associate of Applied Science Degree |
| Description: <br> Business Technology programs at St. Charles Community College address the full range <br> of technology and business skills. This degree option provides the training necessary to <br> work in a variety of business environments including, but not limited to human resources, <br> office management, desktop publishing, event planning, project management, <br> organizational leadership, and small business ownership. The Business Technology <br> program provides current computer/technical training in all facets of Microsoft Office, <br> desktop publishing, and up-to-date technology tools. |  |


| General Education Requirements |  |  |  | 24 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME |  |  |
| Mathematics | MAT 105 | Applied Math* | 3 |  |
| Communication | ENG 101 <br> ENG 102 <br> SPE 101 | English Composition I* <br> English Composition II* <br> Oral Communications | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101, or HIS 102, or HIS 115, or HIS 270, or POL 101, or POL 102 | US History to 1877 US History since 1877 US History Since 1945 History of Missouri American Government State \& Local Government | 3 |  |
| Natural <br> Science | Any BIO, CHM or PHY |  | 3 |  |
| Humanities | CPT 105 | Computer Ethics | 3 |  |
| Elective | BTC/CPT 103 | Microcomputer Applications | 3 |  |

CORE COURSE REQUIREMENTS MUST INCLUDE:

|  | BTC 105 | Proofreading \& Editing Business <br> Documents | 3 |
| :--- | :--- | :--- | :--- |
|  | BTC 130, 131, 132 | Customer Service, Telephone <br> Communication Skills, and Time <br> Management (online) | 3 <br> $(1$ <br> hr. <br> ea) |
|  | BTC 136 | Electronic Communication with |  |
| Stakeholders | 2 |  |  |
|  | BTC 138 | Project Management | 1 |
|  | BTC 145 | Business Technology Tools | 3 |
|  | BTC 150 | Managing Info: Outlook | 1 |
|  | BTC 160 | Word Processing-Word | 2 |

```
Nancy Graviett
636-922-8390
ngraviett@stchas.edu
```


## Office Coordinator

Ginny Tiller
636-922-8334
gtiller@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Office Location
Technology Building, Room 105
Office Phone Number
636-922-8334


| COURSE NUMBER | COURSE NAME | CH |  |
| :---: | :---: | :---: | :---: |
| BTC 105 | Proofreading and Editing Business Documents + *** | 3 |  |
| BTC 130 | Customer Service + ** | 1 |  |
| BTC 132 | Time Management + ** | 1 |  |
| BTC 190 | Planning and Design Concepts (Publisher) *** | 2 |  |
| BTC 245 | Administrative Procedures ++ | 3 |  |
| BTC 290 | Publishing Projects (InDesign) *** | 2 |  |
| SPE 101 | Oral Communications | 3 |  |
| FOURTH SEMESTER |  |  | 16 |
| COURSE NUMBER | COURSE NAME | CH |  |
| BTC 131 | Telephone Communication Skills + ** | 1 |  |
| ACT 101 | Applied Accounting | 3 |  |
| BTC 145 | Business Technology Tools ++ | 3 |  |
| BTC 247 | Administrative Supervision ++ | 3 |  |
| BTC 250 | Business Simulations ++ | 3 |  |
|  | Any: ANT,ECO, GEO, HIS, PHE, or SOC | 3 |  |
| Total Hours Required for Graduation |  |  | 64 |

## Academics

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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates > Child Care \& Early Education A.A.S.

## Child Care \& Early Education A.A.S.

| Degree Name: | Child Care \& Early Education A.A.S. |
| :--- | :--- |
| Degree or Program: | Child Care \& Early Education |
| Degree Type: | Associate of Applied Science Degree |
| Description: |  |

This program provides students with the knowledge and skills necessary to dare for and teach children from birth to age 8. Child care professionals promote the social, emotional, cognitive, language, and physical growth of young children by guiding and supervising them through a variety of developmentally appropriate experiences.
General Education Requirements:
24-25

|  | COURSE <br> NUMBER | COURSE NAME |  |
| :---: | :---: | :---: | :---: |
| Mathematics | MAT 105 or MAT 108 or MAT 121 | Applied Math or Understanding K-8 Math Intermediate Algebra | 3-4 |
| Communication | ENG 101 <br> ENG 102 or ENG 115 or ENG 125 SPE 101 | English Composition I <br> English Composition II or Technical Writing or Business Writing Oral Communications | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |
| Social Science | HIS 101 or HIS 102 or HIS 115 or POL 101 or POL 102 | US History to 1877 or US History since 1877 or US History since 1945 or American Government or State \& Local Government | 3 |
| Natural Science |  | Any BIO, CHM, or PHY | 3 |
| Humanities |  | Any Humanities (ART 101 or MUS 111 preferred) | 3 |
| Elective |  | Any Elective | 3 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  |


| CDC 101 | Introduction to Early Childhood Education | 3 |
| :--- | :--- | :--- |
| CDC 102 | Creative Activities and Play for Young <br> Children | 3 |
| CDC 103 | Literacy \& Literature for Young Children | 3 |
| CDC 104 | Principles of Early Childhood Curriculum | 3 |
| CDC 105 | Early Childhood Practicum I | 2 |
| CDC 107 | Introduction to Young Children with Special <br> Needs | 3 |
| CDC 109 | Early Childhood Practicum I Seminar | 1 |
|  |  |  |

Apply now?

FIND OUT MORE!
about SCC

## Department

Child Care and Early Education

## Related Degrees/ Certificates

- Child Care \& Early Education C.A.


## Program Contact

Kathy Drews
636-922-8424
kdrews@stchas.edu

## Office Coordinator

Phyllis Marchand
636-922-8496
phyllis_marchand@stchas.edu

## Office Info

## Office Hours

8 a.m.-4:30 p.m.
Monday-Friday

## Office Location

Social Sciences Building, Room 1104
Office Phone Number


Contact Information: Kathy Drews, 636-922-8424 or kdrews@stchas.edu.
*The Academic Skills Assessment is required before enrolling in a Math or English course. If a student places into lower level courses than are required for the degree, then the student must first enroll in lower level courses before enrolling the the courses required for graduation.
**CDC 104, CDC 105, \& CDC 109 must be taken together and are offered only in the fall semester. Permission of program chair.
${ }^{* * *}$ CDC 203, CDC 206, CDC 209 \& CDC 210 must be taken together and are offered only in the spring semester. Permission of program chair.
+Courses that will fulfill the graduation requirements for General Education electives, Social Science, Natural Science, \& Humanities are listed in the "Associate of Applied Science Degree Graduation Requirements". Students must demonstrate computer literacy.

| Courses by Semester |  |  |  |
| :---: | :---: | :---: | :---: |
| FIRST SEMESTER |  |  | 18 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 101 | English Composition 1 * | 3 |  |
| Social Sciences | HIS 101, or 102, or 115 , or POL 101, or 102+ | 3 |  |
| CDC 101 | Intro to Early Childhood | 3 |  |
| CDC 102 | Creative Activities and Play for Young Children | 3 |  |
| CDC 112 | Child Growth \& Development I:Prenatal through Early Childhood | 3 |  |
| HUM | Any Humanities (ART 101 or MUS 111 preferred)+ | 3 |  |
| SECOND SEMESTER |  |  | $\begin{aligned} & 15- \\ & 16 \end{aligned}$ |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 115 or ENG 125 or ENG 102 | Technical Writing or Business Writing or English Composition II | 3 |  |

$\left.\begin{array}{|l|l|l|l|}\hline \text { MAT } 105 \text { or } \\ \text { MAT } 108 \text { or } \\ \text { MAT 121 }\end{array} \quad \begin{array}{l}\text { Applied Math or * } \\ \text { Understanding K-8 Math or } \\ \text { Intermediate Algebra }\end{array}\right)$

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## Degree Info.

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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Computer-Aided Drafting (CAD) A.A.S.
Computer-Aided Drafting (CAD) A.A.S.


## What Is CAD

This program option provides students with a comprehensive knowledge of computeraided drafting (CAD). Students will be able to choose from a list of optional CAD courses to allow emphasis in architectural, industrial, civil or broad scope applications as desired. Additional courses in science and math are required.

## Occupation Overview

These technicians (i.e. drafting technicians or "drafters") operate computer-aided design systems to produce final specifications and drawings for new designs. A drafter may work as a team member with engineers, analysts, architects, other drafters and/or designers assigned to a specific design. Drafters use special computer software for producing, communicating and revising detailed specifications and drawings.

## Learn more from SCC Career Services

## CAD Careers

SCC graduates are employed in a broad range of careers including, but not limited to: Aeronautical drafter, architectural drafter, automotive design drafter, CAD drafter, civil drafter, controls designer, construction designer, designer, detail drafter, detailer, die designer, die-drawing checker, drawings checker, electrical drafter, estimator, government recordkeeper, factory layout drafter, HVAC

## Salary Outlook

Nationally, people established in their career generally earn between $\$ 37,840$ $\$ 59,740$ per year. Exceptional performers can earn in excess of $\$ 73,050$.

CAD graduates typically average between \$15-\$28/hour. Opportunities for advancement and promotion after entrylevel employment are typically higher with a CAD Associate of Applied Science degree as compared to a CAD Certificate of

about SCC

## Success Story

## Malee Alway

David Niermann said, "Her dedication, high work ethic and thoroughness greatly exceed the typical student performance in our program."

## Full Story

## Department

## Computer-Aided Drafting (CAD)

## Related Degrees/

 Certificates- Computer-Aided Drafting (CAD) C.A.


## Program Contact

## David Niermann

636-922-8561
dniermann@stchas.edu

## Office Coordinator

## Ginny Tiller

636-922-8334
gtiller@stchas.edu
drafter, industrial drafter, manufacturing technician, patent drafter, product design drafter, project designer/manager, SolidWorks designer, structural drafter, technical illustrator tooling designer.

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Office Location
Technology Building, Room 105

## Office Phone Number

engineers, marketing analysts and industrial designers assigned to a specific product

| General Education Requirements |  |  |  | 34-35 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME |  |  |
| Mathematics | MAT 150 and MAT 162 or MAT 171 | Trigonometry and College Algebra-STEM or Pre-Calculus Math | $\begin{aligned} & 3 \\ & 4 \text { or } \\ & 6 \end{aligned}$ |  |
| Communication | ENG 101 <br> ENG 115 <br> SPE 101 | English Composition I Technical Writing Oral Communications | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101 or 102 or 115 or 270 or POL 101 or 102 | US History or American Government | 3 |  |
| Natural Science | PHY 150/153 | Physics I and Lab | 4 |  |
| Elective | CPT/BTC(BAS) 103 <br> ART 110 <br> Any 2 general electives | Microcomputer Applications Drawing I any course 100 level or higher | $\begin{aligned} & 3 \\ & 3 \\ & 6 \end{aligned}$ |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 12 |
|  | CDM 103 | Introduction to CAD Systems | 2 |  |
|  | CDM 104 | CAD Systems II | 3 |  |
|  | CDM 205 | Architectural Drafting I | 3 |  |
|  | CDM 221 | Solid Modeling I | 3 |  |
|  | CDM 298 | CAD Capstone | 1 |  |
| ELECTIVE COURSES** |  |  |  | 20-21 |
|  | CDM 120 | Descriptive Geometry | 2 |  |
|  | CDM 206 | Architectural Drafting II | 3 |  |
|  | CDM 207 | Revit Architecture I | 3 |  |
|  | CDM 208 | Revit Architecture II | 3 |  |
|  | CDM 209 | Construction Materials | 3 |  |
|  | CDM 210 | HVAC Drafting | 3 |  |
|  | CDM 211 | Structural Drafting | 3 |  |
|  | CDM 212 | Electrical/Electronic Drafting | 3 |  |
|  | CDM 222 | Solid Modeling II | 3 |  |
|  | CDM 223 | Geometric Dimensioning and Tolerance | 3 |  |
|  | CDM 235 | Manufacturing Processes | 3 |  |
|  | CDM 251 | Introduction to Piping Drafting | 3 |  |
|  | CDM 255 | Civil Drafting | 3 |  |

Achievement

Sources: FOCUS Online Career and Education Planning Systems.

| Degree Name: | Computer-Aided Drafting (CAD) A.A.S. |
| :--- | :--- |
| Degree or Program: | Computer-Aided Drafting |
| Degree Type: | Associate of Applied Science Degree |

## Description:

These technicians operate computer aided design systems to produce final design specification and drawings for new products. Works as a team member with development

|  | CDM 265 | Sustainable Design | 3 |
| :--- | :--- | :--- | :--- |
|  | CDM 270 | Externship* | 3 |
|  | CPM 220 | 3 D Animation | 3 |
|  | GEO 120 | Introduction to GIS | 3 |
|  | GEO 225 | Advanced GIS | 3 |

TOTAL REQUIRED HOURS

* The Academic Skills Assessment is required before enrolling in Math or English courses. If a student places into lower level courses than are required for his/her degree, then the student needs to first enroll in lower level courses before enrolling in the courses needed for graduation.
** CDM electives listed above. Choose 20-21 hours.
***General Elective: Choose any course 100 level or higher.
Students completing this program will be assessed in program-related competencies and general education. (CDM 298- CAD Capstone)

For more information, please contact department chair David Niermann at 636-922-8561 or dniermann@stchas.edu

Courses by Semester

| FIRST SEMESTER |  |  | 17-18 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| CDM 103 | Intro to CAD System | 2 |  |
| CDM 104 | CAD Systems II | 3 |  |
| ENG 101 | English Composition I * | 3 |  |
| CPT/BTC 103 | Microcomputer Applications | 3 |  |
| MAT 171 | Pre-Calculus or both MAT 150 \& MAT 160 * | 6 or 7 |  |
| SECOND SEMESTER |  |  | 15-16 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 115 | Technical Writing | 3 |  |
| ART 110 | Drawing I | 3 |  |
|  | Pick two CDM Electives ** | 5-6 |  |
| PHY 150/153 | General Physics I | 4 |  |
| SUMMER SEMESTER |  |  | 3 |
|  | General Elective *** | 3 |  |
| THIRD SEMESTER |  |  | 15 |
| COURSE NUMBER | COURSE NAME | CH |  |
| CDM 205 | Architectural Drafting I | 3 |  |
|  | General Elective*** | 3 |  |
|  | Pick two CDM Electives ** | 6 |  |
| CDM 221 | Solid Modeling I | 3 |  |
| FOURTH SEMESTER |  |  | 16 |
| COURSE NUMBER | COURSE NAME | CH |  |
| Social Science | HIS 101, or 102, or 115, or 270, or POL 101, or 102 | 3 |  |
| SPE 101 | Oral Communications | 3 |  |
|  | Pick three CDM Electives ** | 9 |  |
| CDM 298 | CAD/CAM Capstone | 1 |  |
| Total Hours Required for Graduation |  |  | 66-68 |



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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Computer Programming A.A.S.

## Computer Programming A.A.S.

## What Is Computer Programming?

Computer programmers determine the types of information and data needed to produce the computer results expected by an organization's decision-makers and decide how to analyze and process information and summarize results in printed reports or graphic displays. They determine what programming language to use to write programs that satisfy an organization's needs.

## Occupation Overview

Computer programmers write the detailed instructions (programs and software) that list in a logical order the steps the computer must follow to organize data to solve a problem. Programmers determine how to capture and enter information needed and summarize computer results in reports and displays.

Many programmers obtain a two-year associate degree for an entry-level position. However, the trend for many positions has been the requirement of a bachelor's degree. If a student wants to transfer courses, then the Associate of Applied Science degree should be pursued and the Computer Science Transfer Program Schedule Guide followed.

## Learn more from SCC Career Services

## Computer Programming Careers

SCC graduates are employed in a broad range of careers including, but not limited to: programmer/analyst, application programmer/developer, programmer systems analyst, network or system software engineer, project manager and technical writer.
occupations.

- Programming Languages C.A.


## Program Contact

Rex McKanry
636-922-8289
rmckanry@stchas.edu

## Office Coordinator

## Ginny Tiller

636-922-8334
gtiller@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m. Monday-Friday

Office Location
Technology Building, Room 105
Office Phone Number

## Salary Outlook

The average starting salary for programmers is $\$ 32,500$ with an associate's degree and about \$50,000 per year with a bachelor's degree. The hourly mean wage for computer programmers in Missouri is $\$ 34.48$. Established computer programmers generally earn between \$53,620 and \$91,000 per year. Exceptional performers can earn in excess of \$113,380.

Sources: FOCUS Online Career and

## Occupational Outlook

Employment of computer programmers is projected to grow 8 percent through 2022, about as fast as the average for all


## FIND OUT MORE!

about SCC

## Department

Computer Science - Computer Programming
Related Degrees/ Certificates

Apply now?
$\qquad$





|  | CPT 160 | Mobile Apps Development | 3 |
| :--- | :--- | :--- | :--- |
|  | CPT 185 | Programming in C\# | 3 |
|  | CPM 190 | Dynamic Programming Languages | 3 |
|  | CPT 250 | Database Programming | 3 |

TOTAL REQUIRED HOURS

## Courses by Semester

| FALL SEMESTER |  |  | 16 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| CPT 115 | Introduction to Data Processing | 3 |  |
| CPT 106 | PC Operating Systems | 3 |  |
| CPT 103 | Microcomputer Applications (MS Office) | 3 |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 121 | Intermediate Algebra | 4 |  |
| SPRING SEMESTER |  |  | 17 |
| COURSE NUMBER | COURSE NAME | CH |  |
| CPT 121 | Basics of Data Communications | 3 |  |
| CPT 165 | Computer Programming Logic | 3 |  |
| CPC 107 | A+ Computer Repair \& Maintenance | 5 |  |
| CPT/BUS 105 | Computer Ethics | 3 |  |
| SCIENCE | Natural Science | 3 |  |
| SUMMER SEMESTER |  |  | 3 |
| COURSE NUMBER | COURSE NAME | CH |  |
| SPE 101 | Oral Communication | 3 |  |


| FALL SEMESTER |  |  | 15 |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 102, 115 or <br> 125 | English Comp II -or- Technical Writing -or- Business <br> Writing | 3 |  |
| CPM 120 | Windows Multimedia | 3 |  |
| CPT Elect | CPT Elective Part I | 3 |  |
| CPT Elect | CPT Elective Part I | 3 |  |
| CPT Elect | CPT Elective Part I | 3 |  |



CPT Electives: Choose two of the following pairs:

| Part I (Fall) | Choose 1 course for $\mathbf{3}$ hrs | Part II (Spring) | Choose 1 course for 3 hrs |
| :--- | :--- | :--- | :--- |
| CPT 182 | Beg. Programming C++ | -and- CPT 186 | Adv. Programming C++ |
| CPT 280 | Visual Basic (.NET) | -and- CPT 282 | Adv. Visual Basic (.NET) |
| CPM 284 | Java Programming | -and- CPT 287 | Adv. Java Programming |
| CPT 240 | SQL Basics | -and- CPT 260 | Oracle Programming |
| CPT 174 | COBOL Programming I | -and- CPT 175 | COBOL Programming II |

Plus choose any two of the following electives

| Part I <br> (Fall) | Choose 1 course for 3 hrs | Part II <br> (Spring) | Choose 1 course for 3 hrs |
| :--- | :--- | :--- | :--- |
| CPM 190 | Dynamic Programming <br> Lang. | CPT 250 | Database Programming <br> (PHP) |
| CPT 104 | Intro to Animation \& Games | CPT 185 | C\# Programming |
| CPT 135 | Programming in Python | CPT 160 | Mobile Apps Development |



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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Cyber Security A.A.S.

## Cyber Security A.A.S.

## What Is Cyber Security?

Cyber security professionals control access to information and prevent unauthorized tampering or disclosure of information.

## Occupation Overview

Cyber security specialists plan, coordinate and implement security measures for information systems. They work with company or government personnel to understand the current system and any security needs that need to be addressed. They test data processing systems to ensure proper functioning and security and modify computer security files to incorporate new software to correct errors or change access status to information. They develop plans to safeguard computer files from accidental or unauthorized modification, destruction or disclosure of information. They also develop plans to meet emergency data processing needs.

Cyber security specialists install protective software or make changes to existing software. They may coordinate implementation of computer system security plans with personnel and outside vendors and build firewalls to keep unauthorized users from accessing information. They monitor data logs that report all activity on the system and look for any unusual activity.

## Learn more from SCC Career Services

## Cyber Security Careers

SCC graduates are employed in a broad range of careers including, but not limited to: network security administrator, network security engineer, information systems security manager, systems security administrator, data security analyst and chief security officer.

## Occupational Outlook

This field is rapidly expanding with emerging needs related to increased use of the Internet by businesses and new concerns regarding information terrorism. Employment of information security analysts is projected to grow 37 percent through 2022, much faster than the average for all occupations.


## Salary Outlook

The median hourly wage for cyber security analysts in Missouri is $\$ 36.87$. People established in information security careers generally earn between $\$ 52,940$ and $\$ 85,830$ per year. Exceptional performers can earn in excess of $\$ 105,970$.

Sources: FOCUS Online Career and Education Planning Systems.

## FIND OUT MORE!

## about SCC

## Department

Computer Science - Networking

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Data Management C.A.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.


## Program Contact

Michael Fuszner
636-922-8322
mfuszner@stchas.edu

| Degree or Program: | Computer Science |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Degree Type: | Associate of Applied Science Degree |  |  |  |
| Description: <br> The AAS degree in Cyber Security helps IT professionals build cyber security skills used to help protect corporate networks. Students learn how a hacker compromises secure networks, how to set up defenses against hackers, and how to gather forensic evidence if an intrusion occurs. The focus is on understanding the technologies so that cyber attacks may be more fully discovered, analyzed and prevented. |  |  |  |  |
| General Education Requirements: |  |  |  | 25 |
|  | COURSE <br> NUMBER | COURSE NAME | CREDIT <br> HOURS |  |
| Mathematics | MAT 121 | Intermediate Algebra | 4 |  |
| Communication | ENG 101 <br> SPE 101 <br> Plus one of the following: <br> ENG 102 <br> ENG 115 <br> ENG 125 | English Composition I Oral Communication <br> English Composition <br> II <br> Technical Writing <br> Business Writing | 9 |  |
| Social Science | Pick one: <br> HIS 101 <br> HIS 102 <br> HIS 115 <br> HIS 270 <br> POL 101 <br> POL 102 | US History to 1877 US History Since 1877 <br> US History Since 1945 <br> History of Missouri <br> American <br> Government <br> State \& Local <br> Government | 3 |  |
| Natural Science | Any BIO or Any CHM or Any PHY | Varies | 3 |  |
| Humanities | CPT 105 | Computer Ethics | 3 |  |
| Elective | CPT 103 | Microcomputer Applications | 3 |  |
| CORE COURSE REQUIRE | ENTS MUST INCL |  |  | 46 |
| A+ (Computer Repair \& Maintenance) | CPC 107 |  | 5 |  |
| CCNA1 | CPC 170 |  | 5 |  |
| CCNA2 | CPC 171 |  | 5 |  |
| Windows Server \& Active Directory | CPC 202 |  | 5 |  |
| Virtualization Technologies | CPC 290 |  | 3 |  |
| CCNA Security | CPC 245 |  | 5 |  |
| Cyber Security Essentials | CPC 155 |  | 3 |  |
| Introduction to UNIX/Linux | CPC 180 |  | 3 |  |
| UNIX/Linux Administration | CPC 260 |  | 3 |  |
| Security Fundamentals | CPC 160 |  | 3 |  |
| Computer Forensics | CPC 161 |  | 3 |  |
| Ethical Hacking | CPC 162 |  | 3 |  |
| TOTAL REQUIRED HOURS |  |  |  | 71 |
| Courses by Semester |  |  |  |  |
| FIRST SEMESTER |  |  |  | 17 |

Ginny Tiller 636-922-8334
gtiller@stchas.edu

## Office Info

## Office Location

Technology Building, Room 105

## Office Phone Number

636-922-8322
$\left.\begin{array}{|l|l|l|l|}\hline \text { COURSE NUMBER } & \text { COURSE NAME } & \text { CH } \\ \hline \text { ENG } 101 & \text { English Composition I } & 3 \\ \hline \text { HIS 101 or } & \begin{array}{l}\text { US History to 1877 } \\ \text { HIS 102 or } \\ \text { HIS 115 or } \\ \text { HIS 270 or } \\ \text { POL 101 or } \\ \text { POL } 102\end{array} & \begin{array}{l}\text { US History Since 1945 } \\ \text { History of Missouri }\end{array} & 3 \\ \hline \text { CPC 107 } & \text { American Government } \\ \text { State \& Local Government }\end{array}\right)$

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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Database Management A.A.S.

## Database Management A.A.S.

## What Is Computer Database Management?

Computer database managers write and code logical and physical database descriptions and specify identifiers of database to management system or direct others in coding descriptions.

## Occupation Overview

Database managers specify users and user access levels for databases and train users on databases and answer user questions. They approve, schedule, plan and supervise the installation and testing of new products and improvements. They develop standards and guidelines to guide the use and acquisition of software and to protect vulnerable information. They may work on project teams to coordinate database development and determine project scope and limitations.

Learn more from SCC Career Services

## Database Management Careers

SCC graduates are employed in a broad range of careers including, but not limited to: database administrator, database analyst, geographical information systems (GIS) technician, data warehouse specialist, Web database developer, database management specialist, database inventory manager, technical writer and information specialist.

## Occupational Outlook

Employment of database administrators is projected to grow 15 percent from 2012 to 2022, faster than the average for all occupations. Growth in this occupation will be driven by the increased data needs of companies across the economy.


## Salary Outlook

The median hourly wage for data management professionals in Missouri is $\$ 37.09$. Established data management professionals generally earn between \$ 53,470 and \$ 93,260 per year. Exceptional performers can earn in excess of \$114,200.

Source: FOCUS Online Career and Education Planning Systems

| Degree Name: | Database Management A.A.S. |  |  |
| :--- | :--- | :---: | :---: |
| Degree or Program: | Computer Science |  |  |
| Degree Type: | Associate of Applied Science Degree |  |  |
| Description: <br> Databases are used to store, retrieve and manipulate data in nearly every type of <br> organization including business, healthcare, education, government and libraries. <br> Database technology is routinely used by individuals on personal computers, by work <br> groups accessing databases on network servers, and by all employees using enterprise- <br> wide distributed applications. |  |  |  |
| General Education Requirements |  |  | 25 |



## FIND OUT MORE!

## about SCC

## Department

Computer Science - Database Management

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Cyber Security A.A.S.
- Data Management C.A.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.


## Program Contact

Rex McKanry
636-922-8289
rmckanry@stchas.edu
Office Coordinator


## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday

## Office Location

Technology Building, Room 105

## Office Phone Number

636-922-8334

| SPRING SEMESTER |  |  |  |  |  | 5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| COURSE NUMBER |  | COURSE NAME |  |  | CH |  |
| CPT 121 |  | Basics of Data Communications |  |  | 3 |  |
| CPT 165 |  | Computer Programming Logic |  |  | 3 |  |
| CPM 120 |  | Windows Multimedia |  |  | 3 |  |
| ENG 102, 115 or 125 |  | English Comp II -or- Technical Writing -or- Business Writing |  |  | 3 |  |
| HIS or POL |  | Social Sciences |  |  | 3 |  |
| SUMMER SEMESTER |  |  |  |  |  | 3 |
| COURSE NUMBER |  | COURSE NAME |  |  | CH |  |
| SPE 101 |  | Oral Communication |  |  | 3 |  |
| FALL SEMESTER |  |  |  |  |  | 15 |
| COURSE NUMBER |  | COURSE NAME |  |  | CH |  |
| CPT 130 |  | Intro to UNIX |  |  | 3 |  |
| CPT 201 |  | Intro to Database Management |  |  | 3 |  |
|  |  | Natural Science |  |  | 3 |  |
| CPT 240 |  | SQL Basics |  |  | 3 |  |
|  |  | Database Elective Part I (see below) |  |  | 3 |  |
| SPRING SEMESTER |  |  |  |  |  | 15 |
| COURSE NUMBER |  | COURSE NAME |  |  | CH |  |
| CPT 200 |  | Systems Analysis and Design |  |  | 3 |  |
| CPT 245 |  | Computer Security |  |  | 3 |  |
| CPT 260 |  | Oracle Programming |  |  | 3 |  |
| CPT/BUS 105 |  | Computer Ethics |  |  | 3 |  |
|  |  | Database Elective Part II (see below) |  |  | 3 |  |
| Database Electives: Choose any 2 courses |  |  |  |  |  |  |
| Part I (Fall) | Choos | 1 course for 3 hrs | Part II (Spring) | Choose 1 cou | r 3 hr |  |
| GEO 120 or | Intro to | GIS | GEO 225 or | Advanced GIS |  |  |
| CPT280 or | Visual | Basic (.NET) | CPT 282 or | Adv. Visual Bas | (NET) |  |
| CPM 190 or | Dynami | c Programming | CPT250 or | Database Prog |  |  |
| CPT270 | Program | mming in Perl | CPT265 | DB2 Programm |  |  |



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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates > Management Information Systems A.A.S.

## Management Information Systems A.A.S.

## What Is Computer Management Information Systems (MIS)?

Computer and information systems managers, often called information technology (IT) managers or IT project managers, plan, coordinate, and direct computer-related activities in an organization. They help determine the information technology goals of an organization and are responsible for implementing computer systems to meet those goals.

## Occupation Overview

Computer and information systems managers typically do at least some or all of the following:

- Analyze their organization's computer needs and recommend possible upgrades to top executives
- Plan and direct installing and upgrading computer hardware and software
- Ensure the security of an organization's network and electronic documents
- Assess the costs and benefits of a new project and justify spending on the project to top executives
- Learn about new technology and look for ways to upgrade their organization's computer systems
- Determine short- and long-term personnel needs for their department
- Plan and direct the work of other IT professionals, including computer systems analysts, software developers, information security analysts, and computer support specialists
- Negotiate with vendors to get the highest level of service for their organization's technology

[^1]
## Occupational Outlook

Employment of computer and information systems managers is projected to grow 15 percent through 2022, faster than the average for all occupations. Demand for computer and information systems managers will increase as firms continue to expand their use of wireless and mobile networks.


Apply now!

FIND OUT MORE!
about SCC

## Department

Computer Science - Management Information Systems

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Cyber Security A.A.S.
- Data Management C.A.
- Database Management A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.

Program Contact

Rex McKanry
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rmckanry@stchas.edu

## Computer Management Information Systems Careers

SCC graduates are employed in a broad range of careers including, but not limited to: systems analyst, business analyst, systems support specialist or administrator, project manager, technical writer, IT support coordinator, applications trainer, information specialist and PC support specialist.

Salary Outlook
The median hourly wage for network and computer systems administrators in Missouri is $\$ 32.08$. People established in management information systems careers generally earn between \$89,250 and \$143,590 per year. Further education (bachelor's degree or higher) will typically yield higher earnings.

Source: FOCUS Online Career and Education Planning Systems.

| Degree Name: | Management Information Systems A.A.S. |
| :--- | :--- |
| Degree or Program: | Computer Science |
| Degree Type: | Associate of Applied Science Degree |

## Description:

The information technology (IT) industry is experiencing considerable expansion and with it comes a demand for skilled talent. Implementing new technology initiatives remains a top priority for companies across all industries. The rapid pace of advancement in computer hardware, software and electronic commerce makes it imperative for managers to allocate financial and personnel resources for regular systems upgrades.

\begin{tabular}{|c|c|c|c|c|}
\hline \multicolumn{4}{|l|}{General Education Requirements must include:} \& 25 \\
\hline \& \begin{tabular}{l}
COURSE \\
NUMBER
\end{tabular} \& COURSE NAME \& \& \\
\hline Mathematics \& MAT 121 \& Intermediate Algebra \& 4 \& \\
\hline Communication \& \begin{tabular}{l}
ENG 101 \\
ENG 102 or \\
ENG 115 or \\
ENG 125 \\
SPE 101
\end{tabular} \& \begin{tabular}{l}
English Composition I \\
English Composition II or Technical Writing or Business Writing Oral Communication
\end{tabular} \& 3
3

3 \& <br>

\hline | Social |
| :--- |
| Sciences | \& HIS 101 or HIS 102 or HIS 115 or HIS 270 or POL 101 or POL 102 \& US History to 1877 or US History Since 1877 or US History Since 1945 or History of Missouri or American Government or State \& Local Government \& 3 \& <br>


\hline | Natural |
| :--- |
| Science | \& Any BIO, CHM, PHY \& \& 3 \& <br>

\hline Humanities \& CPT/BUS 105 \& Computer Ethics/Business Ethics \& 3 \& <br>
\hline Elective \& CPT 115 \& Introduction to Data Processing \& 3 \& <br>
\hline
\end{tabular}

| CORE COURSE REQUIREMENTS MUST INCLUDE: | 37 |
| :--- | :--- |


|  | CPT 103 | Microcomputer Applications | 3 |
| :--- | :--- | :--- | :--- |
|  | CPT 106 | PC Operating Systems | 3 |
|  | CPT 121 | Basics of Data Communications | 3 |
|  | CPT 165 | Programming Logic | 3 |
|  | CPT 200 | Systems Analysis \& Design | 3 |
|  | CPT 201 | Intro to Database Management | 3 |
|  | CPT 246 | Computer Security | 3 |
|  | BUS 101 | Introduction to Business | 3 |
|  | ACT 110 | Financial Accounting I | 4 |
|  | BUS 201 | Introduction to Management | 3 |
|  | BUS 230 | Introduction to Marketing | 3 |

ELECTIVE COURSES: Choose any one set of the following pairs of
6 courses

CPM 190 -and- Dynamic Programming Languages - 3

| CPT 250 | and- <br> Database Programming (PHP) | 3 |
| :---: | :---: | :---: |
| CPT 104 -andCPT 160 | Intro to Animation \& Computer Games -and- <br> Mobile Aps Development | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
| CPT 280 -andCPT282 | Visual Basic (.NET) -andAdvanced Visual Basic (.NET) | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
| CPT 182 -andCPT 186 | Beginning Programming in $\mathrm{C}++$-and Advanced Programming in C++ | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
| CPT 284 -andCPT 287 | Java Programming -andAdvanced Java Programming | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
| CPT 174 -andCPT 175 | COBOL Programming I -andCOBOL Programming II | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |
| CPT 135 -andCPT 185 | Programming in Python -andC\# Programming | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |

TOTAL REQUIRED HOURS
65
Courses by Semester

| FALL SEMESTER |  |  | 15 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| CPT 115 | Introduction to Data Processing | 3 |  |
| CPT 106 | PC Operating Systems | 3 |  |
| CPT 103 | Microcomputer Applications (MS Office) | 3 |  |
| ENG 101 | English Composition I | 3 |  |
| BUS 101 | Introduction to Business | 3 |  |
| SPRING SEMESTER |  |  | 16 |
| COURSE NUMBER | COURSE NAME | CH |  |
| CPT 121 | Basics of Data Communications | 3 |  |
| CPT 165 | Computer Programming Logic | 3 |  |
| MAT 121 | Intermediate Algebra | 4 |  |
| BUS 201 | Introduction to Management | 3 |  |
| HIS or POL | Social Sciences | 3 |  |
| SUMMER SEMESTER |  |  | 3 |
| COURSE NUMBER | COURSE NAME | CH |  |
| SPE 101 | Oral Communication | 3 |  |
| FALL SEMESTER |  |  | 16 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 102, or 115 or 125 | English Comp II -or-Technical Writing -or-Business Writing | 3 |  |
| CPT 201 | Intro to Database Management | 3 |  |
|  | Natural Science | 3 |  |
| ACT 110 | Financial Accounting I | 4 |  |
|  | CPT Elective Part I | 3 |  |
| SPRING SEMESTER |  |  | 15 |
| COURSE NUMBER | COURSE NAME | CH |  |
| CPT 200 | Systems Analysis \& Design | 3 |  |
| CPT 246 | Computer Security | 3 |  |
| BUS 230 | Intro to Marketing | 3 |  |
| CPT/BUS 105 | Computer Ethics | 3 |  |
|  | CPT Elective Part II | 3 |  |

CPT Electives: Choose one of the following pairs:

| Part I <br> (Fall) | Choose 1 course for 3 <br> hrs | Part II (Spring) | Choose 1 course for 3 hrs |
| :--- | :--- | :--- | :--- |
| CPT 182 | Beg Programming C++ | -and- CPT 186 | Adv Programming C++ |
| CPT 280 | Visual Basic (.NET) | -and- CPT 282 | Adv Visual Basic (.NET) |
| CPM 284 | Java Programming | -and- CPT 287 | Adv Java Programming |
| CPM 190 | Dynamic Progr Languages | -and- CPT 250 | Database Programming (PHP) |
| CPT 104 | Intro to Anim \& Games | -and- CPT 160 | Mobile Apps Development |
| CPT 174 | COBOL Programming I | -and- CPT 175 | COBOL Programming II |
| CPT 135 | Programming in Python | -and- CPT 185 | C\# Programming |
|  |  |  |  |

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## Degree Info.

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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog > Degrees \& Certificates » Multimedia and Web Design A.A.S.

## Multimedia and Web Design A.A.S.



## What Is Multimedia and Web Design?

This program option provides students with a comprehensive knowledge of multimedia and Web design. Students will be able to choose from courses that focus on Web page design and development, multimedia programming, 2D and 3D graphics and animation for the Web, video and sound editing, and dynamic scripting
(programming) languages to create vibrant websites. Students will learn how to integrate different types of content (script, design, video, audio, etc.) into an artistically powerful whole multimedia project.

## Occupation Overview

Web designers determine the look and feel of an entire website. Web art directors have a degree in commercial art or fine arts with a strong course background in graphic design, computer science or information systems. Specialized coursework in Internet and website technology is very helpful. Courses should include Internet software languages, website design using graphics and audiovisual techniques, website setup and maintenance and information security. Courses in marketing and advertising will strengthen your credentials. When seeking an entry-level position in this field, it is important to have a portfolio containing samples of your best work.

## Occupational Outlook

Employment of Web and multimedia professionals is projected to grow 20 percent through 2022, faster than the average for all occupations. Demand will be driven by the growing popularity of mobile devices and e-commerce.

Local/regional placement and outlook have been higher than average compared to the national outlook.



FIND OUT MORE!
about SCC
Success Story

## Chris Ruth

"They had the courses I was looking for. And the price was right; compared to other colleges and universities, SCC was very competitive."

Full Story

## Department

Computer Science - Multimedia and Web Design

## Related Degrees/ Certificates

[^2]
## Web and Multimedia Careers

SCC graduates are employed in a broad range of careers, including, but not limited to: multimedia developer, webmaster, Web programmer, game developer and creative director.

## Salary Outlook

Nationally, established Web and multimedia professionals generally earn between $\$ 33,130$ and $\$ 58,140$ per year. Exceptional performers can earn in excess of $\$ 76,450$.

Opportunities for advancement and promotion after entry-level employment are typically higher with an A.A.S. degree compared to certificates.

Sources: FOCUS Online Career and Education Planning Systems.

Multimedia and Web Design A.A.S.

| Degree Name: | Multimedia and Web Design A.A.S. |
| :--- | :--- |
| Degree or Program: | Computer Science |
| Degree Type: | Associate of Applied Science Degree |

## Description:

This degree gives you a thorough knowledge of various multimedia software and scripting languages including graphics development, photo editing, video editing, creating 2D/3D animations, Web page design using HTML, JavaScript, PHP, MySQL, content management systems and social media.

Our degree in Multimedia and Web Design focuses on integrating various up-to-date software and scripting languages to create a broad base in the field, preparing you for multiple career opportunities.

| General Education Requirements Must Include: |  |  |  | 24-25 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME |  |  |
| Mathematics | Any MAT 105,121, or higher | Applied Math, Intermediate Algebra or higher | 3-4 |  |
| Communication | ENG 101 <br> ENG 115 <br> SPE 101 | English Composition I <br> Technical Writing Oral Communication | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101 <br> HIS 102 <br> HIS 115 <br> HIS 270 <br> POL 101 or <br> POL 102 | U.S. History to 1877 <br> U.S. History Since 1877 <br> U.S. History Since 1945 <br> History of Missouri <br> American Government <br> State \& Local Government | 3 |  |
| Natural <br> Science |  | Any BIO, CHM or PHY | 3 |  |
| Humanities | CPT/BUS 105 | Computer/Business Ethics | 3 |  |
| Elective | CPT 115 | Introduction to Data Processing | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 33 |


|  | CPT/BTC(BAS)103 | Microcomputer Applications | 3 |
| :--- | :--- | :--- | :--- |
|  | CPT 106 | PC Operating Systems | 3 |
|  | CPT 121 | Basics of Data Communications | 3 |
|  | CPT 165 | Programming Logic | 3 |
|  | CPM 120 | Windows Multimedia | 3 |
|  | CPM 170 | Computer Graphics (Adobe <br> Illustrator) | 3 |
|  | CPM 160 | Introduction to HTML | 3 |
|  | CPM 210 | Digital Photo Editing (Adobe <br> Photoshop) | 3 |
|  | CPM 250 | Web Animation (Adobe Flash) | 3 |

Web Design C.A.

- Web Development C.S.


## Program Contact

```
Jane O'Donnell 636-922-8594
jodonnell@stchas.edu
```


## Office Coordinator

## Ginny Tiller

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## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday

## Office Location

Technology Building, Room 105
Office Phone Number
636-922-8334


|  | CPM Elective | 3 |
| :---: | :---: | :---: |
| Choose Three of the Following: |  |  |
| CPM 240 | Web Design (Dreamweaver) | 3 |
| CPM 220 | Animation \& Design (SketchUp)***3 | 3 |
| CPM 215 | Fireworks (8 week course-2nd 8 weeks)*3 | 2 |
| CPM 190 | Dynamic Programming Languages*** | 3 |
| CPM 230 | Social Media Marketing*2 | 3 |
| CPM 270 | Digital Video Editing (Adobe Premiere) | 3 |
| CPT 250 | Database Programming* ${ }^{*} 4^{*} 6$ | 3 |
| CPM 280 | Multimedia Programming (Java Script)***4 | 3 |
| CPM 290 | Topics in Multimedia+ | 3 |
| CPT 160 | Mobile Apps Development*4 | 3 |

The Academic Skills Assessment is required before enrolling in math or English courses. If a student places into lower-level courses than are required for his/her degree, then the student needs to first enroll in lower-level courses before enrolling in the courses needed for graduation.

The student earning an Associate of Applied Science degree needs to be aware that the courses taken for the degree are specifically designed to help in obtaining employment after earning the degree and are not designed for transfer to a four-year institution. If the student wants to transfer courses, then the Associate of Arts degree should be pursued.
**Courses that will fulfill the graduation requirements for general education electives, social science, natural science and humanities are listed in the "Associate of Applied Science Degree Graduation Requirements" in the college catalog.
+CPM 290 (Topics in Multimedia) independent study course for students who want to study multimedia in depth, needs appropriate prerequisite and instructors permission.
*1 online course only
*2 nights only
*3 FA only
*4 SP only
*5 not available at this time
*6 odd years only
*7 even years only
Contact Information: Jane O'Donnell iodonnell@stchas.edu, 636-922-8594
If you have specific questions about additional computer information, contact the Computer Science Department in TECH 105.


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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Network Security A.A.S.

Network Security A.A.S.

## What Is Computer Networking?

Computer networking is an engineering discipline that aims to study and analyze communication among various computing devices or computer systems that are linked, or networked together to exchange information and share resources.

## Occupation Overview

Computer network professionals help manage the flow of information between two or more linked computers. They install and test computer and communications media, hardware and software and assist network administrators in the operations of computer hardware, software and communication devices that link computers and remote terminals.

They install, test and debug new network software and hardware. They write documentation and instructions for proper use of the network and help users who need guidance or run into problems.

They help network managers in the evaluation of new applications for use on the network and help install and test software that protects the security of information stored in a network system. They evaluate and install software to guard against computer viruses.

## Learn more from SCC Career Services

## Computer Networking Careers

SCC graduates are employed in a broad range of careers including, but not limited to: network engineer, network administrator, systems engineer, technical engineer, data security analyst, systems security administrator, network security engineer, desktop support analyst, systems administrator, help desk assistant, PC technician and IT consultant.

## Occupational Outlook

Employment of computer network architects is projected to grow 15 percent through 2022, faster than the average for all occupations. Demand for computer network professionals will increase as firms continue to expand wireless and mobile networks.


## Salary Outlook

2015 salary projections: Data security analysts \$106,250-\$149,000; systems security administrators $\$ 100,000-\$ 140,250$; network security administrators \$99,250\$138,500; network security engineers \$105,000-\$141,500; and information systems security manager \$122,250\$171,250

## Sources: FOCUS Online Career and

 Education Planning Systems and Bureau of

## FIND OUT MORE!

## about SCC

## Department

Computer Science - Networking

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Cyber Security A.A.S.
- Data Management C.A.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.

Program Contact

Michael Fuszner
636-922-8322
mfuszner@stchas.edu
Office Coordinator

$\left.\begin{array}{|l|l|l|l|}\hline \begin{array}{l}\text { HIS } 102 \text { or } \\ \text { HIS } 115 \text { or } \\ \text { HIS 270 or } \\ \text { POL 101 or } \\ \text { POL 102 }\end{array} & \begin{array}{l}\text { US History Since 1877 } \\ \text { US History Since 1945 } \\ \text { History of Missouri } \\ \text { American Government } \\ \text { State \& Local Government }\end{array} & & \\ \hline \text { CPC 107 } & \text { A+ (Computer Repair \& Maintenance) }\end{array}\right)$


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The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Networking A.A.S.

## Networking A.A.S.

## What Is Computer Networking?

Computer networking is an engineering discipline that aims to study and analyze communication among various computing devices or computer systems that are linked, or networked together to exchange information and share resources.

## Occupation Overview

Computer network professionals help manage the flow of information between two or more linked computers. They install and test computer and communications media, hardware and software and assist network administrators in the operations of computer hardware, software and communication devices that link computers and remote terminals.

They install, test and debug new network software and hardware. They write documentation and instructions for proper use of the network and help users who need guidance or run into problems.

They help network managers in the evaluation of new applications for use on the network and help install and test software that protects the security of information stored in a network system. They evaluate and install software to guard against computer viruses.

## Learn more from SCC Career Services

## Computer Networking Careers

SCC graduates are employed in a broad range of careers including, but not limited to: network engineer, network
administrator, systems engineer, technical engineer, data security analyst, systems security administrator, network security engineer, desktop support analyst, systems administrator, help desk assistant, PC technician and IT consultant.

## Occupational Outlook

Employment of computer network architects is projected to grow 15 percent through 2022, faster than the average for all occupations. Demand for computer network professionals will increase as firms continue to expand wireless and mobile networks.


FIND OUT MORE!
about SCC

## Department

Computer Science - Networking

## Related Degrees/ Certificates

- Networking C.A.

Program Contact

Michael Fuszner
636-922-8322
mfuszner@stchas.edu
Office Coordinator

Ginny Tiller 636-922-8334
gtiller@stchas.edu

## Office Info

## Office Location

Technology Building, Room 105
Office Phone Number
636-922-8322

$\left.\begin{array}{|l|l|l|l|}\hline \text { POL 101 or } & \text { American Government } \\ \text { POL } 102 & \text { State \& Local Government }\end{array}\right)$

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## Degree Info.

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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Law Enforcement A.A.S.

Law Enforcement A.A.S.


## What Is Law Enforcement A.A.S.?

This associate degree program prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities.

## Occupation Overview

Criminal justice graduates with an A.A.S degree may enter the protective service field, which includes jobs in law enforcement.

## Occupational Outlook

Because of the multitude of careers in this field, the outlook is varied. Positions that have a bright outlook in the criminal justice field include compliance officers, customs inspectors, law clerks and sheriffs. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in high-growth industries.


## Learn more from SCC Career Services

## Criminal Justice Careers

SCC graduates with an Associate of Applied Science (A.A.S.) degree in criminal justice are employed in a broad range of careers including, but not limited to: bailiff, border patrol agent, compliance officer, correction officer, court administrator, court clerk, court reporter, criminal investigator, customs inspector, harbor, lake and

## Salary Outlook

In the state of Missouri, employees working in the criminal justice field earn a mean average of $\$ 37,200$ per year, depending on education, experience and employer. Source: Bureau of Labor Statistics

According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.


FIND OUT MORE!
about SCC

## Success Story

## John Ayres

"Professor Van Mierlo's class was a great learning experience. Since he is a lawyer, he sees both sides of criminology."

Full Story

## Department

## Criminal Justice

## Related Degrees/

 Certificates- Criminal Justice Transfer Program Schedule Guide
- Law Enforcement C.A.


## Program Contact

## David Van Mierlo

636-922-8253
dvanmierlo@stchas.edu

## Office Coordinator

[^3]waterways police, highway patrol pilot, immigration inspector, jailer, law clerk, narcotics investigator, police and detectives supervisor, police artist, police identification and records officer, police officer, sheriff and warden.

| Degree Name: | Law Enforcement A.A.S. |
| :--- | :--- |
| Degree or Program: | Criminal Justice |
| Degree Type: | Associate of Applied Science Degree |

## Description:

This program is planned for three types of students:

- Those who plan to work with law enforcement agencies.
- Those already employed as officers who wish to advance in their jobs.
- Those preparing for advanced study in police management, criminology or social welfare.

SCC offers both the Associate of Applied Science-Law Enforcement Option outlined here and the Associate of Arts with a criminal justice emphasis. The A.A.S. will help students obtain employment in the law enforcement area of the criminal justice system. The A.A. is a transfer program for students who plan to pursue a bachelor's degree at a four-year college or university.

The college grants up to 15 credit hours toward the A.A.S. degree for students who already have completed the 1000-hour course at Eastern Missouri law Enforcement Training Academy. These credit hours will be granted at the completion of all the other A.A.S. degree requirements. See an academic advisor if you have attended or plan to attend the academy.

| General Education Requirements: |  |  |  | 24-25 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE <br> NUMBER | COURSE NAME |  |  |
| Mathematics | MAT 105 or higher | Applied Math or higher | 3-4 |  |
| Communication | ENG 101 <br> ENG 102 or <br> ENG 125 <br> SPE 101 | English Composition I <br> English Composition II (recommended) or Business Writing Oral Communication | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101 or HIS 102 or HIS 115 or HIS 270 or POL 101 or POL 102 | U.S. History to 1877 or U.S. History Since 1877 or U.S. History Since 1945 or History of Missouri or American Government or State \& Local Government | 3 |  |
| Natural Science |  | Any BIO, CHM, or PHY | 3 |  |
| Humanities |  | Any Humanities (PHL 102 - Intro to Logic is recommended) | 3 |  |
| Elective | $\begin{aligned} & \text { BTC/CPT } \\ & 103 \end{aligned}$ | Microcomputer Applications | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 23-28 |
|  | CRJ 140 | Introduction to Criminal Justice | 3 |  |
|  | CRJ 170 | Criminal Law \& Procedures ^ | 3 |  |
|  | CRJ 171 | Rules of Evidence ${ }^{\wedge}$ | 3 |  |
|  | CRJ 175 | Criminology | 3 |  |
|  | CRJ 201 | Criminal Justice: Politics \& Policy $\wedge \wedge$ | 3 |  |
|  | CRJ 205 | Juvenile System | 3 |  |
|  | SOC 101 | Introduction to Sociology | 3 |  |
|  | CRJ 265 | Internship I | 1-6 |  |

## Office Info

## Office Hours

7:45 a.m.-4:15 p.m.
Monday-Friday
Office Location
Social Sciences Building, Room 1104
Office Phone Number
636-922-8398

|  | CRJ 298 | Criminal Justice Capstone | 1 |  |
| :---: | :---: | :---: | :---: | :---: |
| Law Enforcement Option (Select from the Following) |  |  |  | 15 |
|  | CRJ 101 | Introduction to Victimology ^ | 3 |  |
|  | CRJ 103 | Addictive Disease Concepts ^ | 3 |  |
|  | CRJ 104 | Treatment Alcohol \& Drugs ${ }^{\wedge}$ | 3 |  |
|  | CRJ 110 | Criminal Investigations | 3 |  |
|  | CRJ 202 | Correctional Institutions | 3 |  |
|  | CRJ 210 | Crime Victimization ${ }^{\wedge}$ | 3 |  |
|  | CRJ 224 | Constitutional Law ${ }^{\wedge}$ | 3 |  |
|  | CRJ 230 | Crisis Intervention ^^ | 3 |  |
|  | CRJ 240 | Probation and Parole ${ }^{\wedge}$ | 3 |  |
|  | CRJ 250 | Police Administration ^ | 3 |  |
|  | CRJ 260 | Police and Community Relations $\wedge \wedge$ | 3 |  |
|  | CRJ 266 | Internship II | 1-6 |  |
|  | CRJ 280 | Comparative CRJ \& Criminology | 3 |  |
|  | CRJ 290 | Special Topics | 1-3 |  |
|  | CRJ 291 | Mock Trial | 1-3 |  |
|  | CRJ 292 | Mock Trial Competition | 1-3 |  |
| TOTAL REQUIRED HOURS |  |  |  | 62-68 |

Contact Information: Dave Van Mierlo 636-922-8253 dvanmierlo@stchas.edu
*The Academic Skills Assessment is required before enrolling in a math or English course. If a student places into lower-level courses that are required for the degree, then the student must first enroll in lower-level courses before enrolling in the courses required for graduation.
** Other writing courses may be substituted for English 102, but if the student plans to transfer to a four-year institution, then English 102 should be taken.
+Courses that will fulfill the graduation requirements for General Education electives, English, Social Science and Natural Science are listed in the Associate of Applied Science Degree Graduation Requirements.
${ }^{\wedge}$ Fall only
$\wedge \wedge$ Spring only
Courses by Semester

| FIRST SEMESTER |  |  | 15 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| CRJ 140 | Intro to Criminal Justice | 3 |  |
| Social Sciences | HIS 101, or 102, or 115 , or 270 , or POL 101, or 102+ | 3 |  |
| ENG 101 | English Composition 1 * | 3 |  |
| SOC 101 | Intro to Sociology+ | 3 |  |
| CRJ 170 | Criminal Law \& Procedure ${ }^{\wedge}$ | 3 |  |
| SECOND SEMESTER |  |  | 15-16 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 125 or ENG 102 | Business Writing or <br> English Composition II * ** | 3 |  |
| MAT 105 | Applied Math or higher * | 3-4 |  |
| CRJ 171 | Rules of Evidence ${ }^{\wedge}$ ^ | 3 |  |
| CRJ 175 | Criminology | 3 |  |
| CRJ 205 | Juvenile System | 3 |  |


| THIRD SEMESTER |  | 18 |  |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME | CH |  |
| SPE 101 | Oral Communication | 3 |  |
| Natural Science | Any BIO, CHM, PHY + | 3 |  |
|  | Pick from above CRJ Electives | 9 |  |
| Humanities | Any Humanities PHL 102 recommended | 3 |  |
| FOURTH SEMESTER | CH |  |  |
| COURSE NUMBER | COURSE NAME | 3 |  |
| CRJ 201 | Criminal Justice: Politics \& Policy ^^ | 6 |  |
|  | CRJ Electives | 3 |  |
| BTC/CPT 103 | Microcomputer Applications | $1-6$ |  |
| CRJ 265 | Internship I | 1 |  |
| CRJ 298 | Capstone |  | 62 |
| Total Hours Required for Graduation | 68 |  |  |
|  |  |  |  |



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## Degree Info.

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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Paraprofessional/Substitute Teacher A.A.S.
Paraprofessional/Substitute Teacher A.A.S.

| Degree Name: | Paraprofessional/Substitute Teacher A.A.S. |
| :--- | :--- |
| Degree or Program: | Education |
| Degree Type: | Associate of Applied Science Degree |
| Description: |  |
| An Associate of Applied Science degree in Paraprofessional Education at SCC is an |  |
| excellent place to begin building knowledge and skills in the field of education. This |  |
| degree, offers a wide array of coursework, many of which may transfer to four-year |  |
| institutions to be counted towards a bachelor's degree. In addition, other coursework |  |
| offers knowledge that is content specific to the needs of students with whom |  |
| paraprofessionals are likely to work. Furthermore, with this degree graduates will meet |  |
| current state and federal regulations for working as a paraprofessional educator or |  |
| substitute teacher in any classroom within a pre-K-12 school setting. |  |
| General Education Requirements | 25 |


|  | COURSE <br> NUMBER | COURSE NAME |  |
| :---: | :---: | :---: | :---: |
| Mathematics | MAT 108 | Understanding K-8 Mathematics | 3 |
| Communication | ENG 101 <br> ENG 102 OR <br> ENG 115 OR <br> ENG 125 <br> SPE 101 | English Composition I <br> English Composition II OR <br> Technical Writing OR <br> Business Writing <br> Oral Communications | 9 |
| Social Science | HIS 101 OR <br> HIS 102 OR <br> HIS 115 OR <br> POL 101 | US History to 1877 OR US History since 1877 OR US History since 1945 OR American Government | 3 |
| Natural Science | $\begin{aligned} & \text { BIO } 105 \\ & \text { BIO } 106 \end{aligned}$ | Essentials of Biology Essentials of Biology Lab | 3 1 |
| Humanities |  | Fine Arts Elective | 3 |
| Elective | PSY 101 | Introduction to Psychology | 3 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  |


|  | EDU 211 | Foundations of Education | 3 |
| :--- | :--- | :--- | :--- |
|  | CDC 112 OR <br> CDC 113 OR <br> PSY 201 OR <br> PSY 215 | Child Growth and Development I OR <br> Child Growth and Development II OR <br> Child Psychology OR <br> Adolescent Psychology | 3 |
|  | EDU 220 | Technology for Teachers | 3 |
|  | EDU 225 OR <br> CDC 103 | Literature for Children OR <br> Literacy and Literature for Young Children | 3 |
|  | EDU 240 | Educational Psychology | 3 |



## FIND OUT MORE!

about SCC

## Department

## Education

## Related Degrees/ Certificates

- Child Care \& Early Education A.A.S.
- Child Care \& Early Education C.A.
- Elementary Education Transfer Program A.A.T.
- Secondary Education Transfer Program A.A.T.


## Program Contact

## Nicole Nunn-Faron

636-922-8242
nnunnfaron@stchas.edu

## Office Coordinator

## Phyllis Marchand

636-922-8496
phyllis_marchand@stchas.edu

## Office Info

## Office Hours

8 a.m.-4:30 p.m.

|  | EDU 242 | Art for Children | 3 |  |
| :--- | :--- | :--- | :--- | :--- |
|  | EDU 250 OR <br> CDC 107 | Education of Exceptional Learners OR <br> Introduction to Young Children with <br> Special Needs | 3 |  |
|  | EDU 285 | Teaching Profession with Field Experience | 3 |  |
|  | EDU 280 | Practicum for Paraprofessionals | 2 |  |
| ELECTIVE COURSES: Choose one of the following | 3 |  |  |  |
|  | EDU 244 | Physical Education for the Elementary <br> Grades | 3 |  |
|  | EDU 246 | Music for Children | 3 |  |
|  | CDC 102 | Creative Activities and Play for Young <br> Children | 3 |  |
|  | CDC 201 | Cognitive Activities and STEM for Young <br> Children | 3 |  |
|  | CDC 207 | Curriculum and Materials for Young <br> Children with Special Needs | 3 |  |
|  |  |  |  |  |

OPEN ELECTIVE COURSES: Courses may not count more than once - so any 6 courses counted as an open elective may not have already been taken/counted toward this degree.

|  | Any EDU of CDC <br> course not already <br> taken | May take up to any two (2) EDU or CDC <br> courses not already taken and counted <br> toward degree | 6 |  |
| :--- | :--- | :--- | :--- | :--- |
|  | PSY 201 | Child Psychology | 3 |  |
|  | PSY 210 | Human Growth and Development | 3 |  |

* The Academic Skills Assessment is required before enrolling in a Math or English course. If a student places into lower level courses than are required for the degree, then the student must first enroll in lower level courses before enrolling in the courses required for graduation.


## Courses by Semester

$\left.\begin{array}{|l|l|l|l|}\hline \text { FIRST SEMESTER } & & & 15 \\ \hline \text { COURSE NUMBER } & \text { COURSE NAME } & \text { CH } & \\ \hline \text { MAT 108 } & \text { Understanding K-8 Math* } & 3 & \\ \hline \text { EDU } 285 & \text { Teaching Profession w/Field Experience } & 3 & \\ \hline \text { ENG 101 } & \text { English Composition I* } & 3 & \\ \hline \text { EDU } 225 \text { or } & \begin{array}{l}\text { Literature for Children or } \\ \text { CDC } 103\end{array} & \text { Literacy and Literature for Young Children }\end{array}\right)$

## Paraprofessional/Substitute Teacher A.A.S. | SCC Degree

| SPE 101 | Oral Communications | 3 |
| :---: | :---: | :---: |
| Elective | Pick one from above elective courses | 3 |
| CDC 112 or CDC 113 or PSY 201 or PSY 215 | Pick one: <br> Child Growth and Development I or Child Growth and Development II or Child Psychology or <br> Adolescent Psychology | 3 |
| EDU 220 | Technology for Teachers | 3 |
| EDU 250 or CDC 107 | Education of Exceptional Learners or Introduction to Young Children with Special Needs | 3 |
| FOURTH SEMESTER |  |  |
| COURSE NUMBER | COURSE NAME | CH |
| EDU 280 | Practicum for Paraprofessionals | 2 |
| HIS 101 or HIS 102 or HIS 115 or POL 101 | US History to 1877 or US History since 1877 or US History since 1945 or American Government | 3 |
| Open Electives | Pick two from the list above | 6 |
| Elective | Fine Arts Elective | 3 |



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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Emergency Medical Science A.A.S.

## Emergency Medical Science A.A.S.

| Degree Name: | Emergency Medical Science A.A.S. |
| :--- | :--- |
| Degree or Program: | Emergency Medical Science |
| Degree Type: | Associate of Applied Science Degree |
| Description: |  |
| The Associate of Applied Science in Emergency Medical Science is the result of formal |  |
| agreements between St. Charles Community College and Respond Right EMS Academy |  |
| (REMSA) Educational Division, as well as an agreement between St. Charles Community |  |
| College and St. Charles County Ambulance District (SCCAD). The college grants 30 |  |
| credit hours toward the A.A.S. degree for students who submit proof of passing the |  |
| National Registry of Emergency Medical Technicians (NREMT) Exam. These credit |  |
| hours will be granted at the completion of all the other A.A.S. degree requirements. See |  |
| an academic advisor if you have or plan to take the NREMT Exam. Students may begin |  |
| taking the additional hours required at SCC at any time but will only be awarded the |  |
| additional 30 hours when the above requirement is met. |  | additional 30 hours when the above requirement is met.


| General Education Requirements: |  |  | $31-$ <br> 32 |
| :--- | :--- | :--- | :--- | :--- |
|  | COURSE <br> NUMBER | COURSE NAME | CREDIT <br> HOURS |
| Mathematics | MAT 105 or <br> MAT 121 | Applied Math or <br> Intermediate Algebra | 3 or 4 |
|  | Any LIT <br> SPE 101 | English Composition I <br> Any LIT <br> Oral Communications | 3 |
| Communication | ENG 101 <br> HIS 102 or <br> HIS 115 or <br> POL 101 or <br> POL 102 | US History to 1877 <br> US History since 1877 <br> US History Since 1945 <br> American Government <br> State \& Local Government | 3 |
| Natural | CHM 101/103 |  |  |
| Science | Laboratory | 3 |  |
| Humanities | PHL 160 | Ethics | 3 |
| Elective | BTC(BAS)CPT 103 | Microcomputer Applications |  |
| Introduction to Psychology |  |  |  |
| PSY 101 |  |  |  |
| PSY 216 |  |  |  |

CORE COURSE REQUIREMENTS MUST INCLUDE: * ..... 30

This requirement is fulfilled by submitting proof of passing the National Registry of Emergency Medical Technicians (NREMT) Exam. These credit hours will be granted at the completion of all the other A.A.S. degree requirements.

| TOTAL REQUIRED HOURS | 61- |
| :--- | :--- | 62



## FIND OUT MORE!

## Department

## Nursing

## Office Coordinator

Denise Lammers
636-922-8280
dlammers@stchas.edu

## Office Info

## Office Hours

8 a.m.-4:30 p.m. Monday-Friday. Hours may vary during summer please call to confirm.

## Office Location

Center for Nursing and Allied Health Sciences, Suite 102

## Office Phone Number

636-922-8280
enrolling in Math or English courses. If a student places into courses lower than those required for his/her degree, those courses need to be completed before enrolling in the required courses.

* 30 credit hours awarded for completion of Respond Right EMS Academy Paramedic EMT-P Program or St. Charles County Ambulance District EMT-P Program.
Documentation of certification is required before the AAS Degree will be awarded.
Courses by Semester

| FIRST SEMESTER |  |  | 16 |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME | CH |  |
| CHM 101/103 | Intro to Chemistry and Lab | 4 |  |
| ENG 101 | English Composition I | 3 |  |
| CPT 103 | Microcomputer Applications | 3 |  |
| MAT 105 or | $\begin{array}{l}\text { Applied Math or } \\ \text { MAT 121 }\end{array}$ | Intermediate Algebra |  |$)$

For more information about the Respond Right Program contact:
Donna Weiss, AAS Firefighter/Paramedic
Director of EMS Education
Respond Right EMS Academy
7491 Mexico Road
St. Peters, MO 63376
Office: 314-713-1645
Fax: 888-859-9304
www.respondright.com
donna@respondright.com
For more information about St. Charles County Ambulance District contact:
Becky Price, Training Center Administrative Assistant
St. Charles County Ambulance District
4169 Old Mill Parkway
St. Peters, MO 63376
Office: 636-344-7663
Fax: 636-447-9060
www.sccad.com bprice@sccad.com


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- Graduation Requirements
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## General Technology A.A.S.

| Degree Name: | General Technology A.A.S. |
| :--- | :--- |
| Degree or Program: | General Technology |
| Degree Type: | Associate of Applied Science Degree |

## Description:

This degree program provides a broad scope of technical skills applicable to technician employment in appropriate industry or service companies. A core foundation including computer hardware/software applications, math, science, CAD and electronics is combined with specialized study areas relative to student/employer interest.
Program opportunities exist for graduates as entry level technicians or for skill advancement of currently employed personnel in technical fields.

## FIND OUT MORE!

|  |  | Management |  |
| :--- | :--- | :--- | :--- |
|  | EGR 100 | Introduction to <br> Engineering | 1 |
| Program Major Concentration | 25 |  |  |
| (Electronics, Networking, Telecommunications, CAD, etc., including 200 level <br> technology courses of student's interests) |  |  |  |
| ELECTIVE COURSES* | 3 |  |  |
| (Technology, management, computers, graphic design, multimedia, and more <br> according to student's interests and needs.) |  |  |  |
| TOTAL REQUIRED HOURS | 72 |  |  |
| *If planning to utilize as transfer credits to another institution, please contact advising or |  |  |  |
| the General Technology Program Coordinator for more specific requirements. |  |  |  |



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## Degree Info.

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- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Occupational Therapy Assistant A.A.S.

## Occupational Therapy Assistant A.A.S.

| Degree Name: | Occupational Therapy Assistant A.A.S. |
| :--- | :--- |
| Degree or Program: | Health |
| Degree Type: | Associate of Applied Science Degree |

## Description:

The Occupational Therapy Assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 4720 Montgomery Lane, Suite 200, Bethesda, MD 20814. AOTE's phone number c/o 301-652-AOTA and its Web address is www.acoteonline.org Graduates will be able to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a certified occupational therapy assistant (COTA). Many states, including Missouri, require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT certification examination.

Note: Clinical facilities require criminal background checks, drug screenings, child abuse clearance checks, etc. in order for students to participate in fieldwork activities and rotations. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination and/or may prevent an individual from obtaining a license to practice. Student may wish to contact the program coordinator for additional information prior to enrolling in a program of study. Information obtained through various screening procedures may prevent entry into the OTA program.

Note: All OTA students must complete Level II fieldwork within 18 months following completion of academic preparation.

| General Education Requirements |  |  |  | 35 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME |  | $\begin{aligned} & \text { EDIT } \\ & \text { URS } \end{aligned}$ |
| Communication | ENG 101 <br> ENG 102 <br> or <br> ENG 115 <br> or <br> ENG 125 <br> SPE 101 | English Composition I <br> English Composition II or <br> Technical Writing or <br> Business Writing <br> Oral Communications | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | PSY 101 <br> PSY 210 <br> HIS/POL | Intro to Psychology <br> Human Growth \& Development <br> History/ Political Science | 3 3 3 |  |
| Natural Science | BIO <br> 240/243 <br> BIO <br> 241/244 <br> BIO 270 | Anatomy \& Physiology I <br> Anatomy \& Physiology II <br> Kinesiology | 4 4 3 |  |
| Humanities |  | Any ART, BUS/CPT 105, DAN 196, 197, 198, 199, | 3 |  |



## FIND OUT MORE!

## Department

Occupational Therapy Assistant Program

## Related Degrees/ Certificates

- Emergency Medical Science A.A.S.
- Health Information Management A.S.
- Nursing A.S.
- Practical Nursing C.A.
- Pre-Health Professions Suggested Transfer Program (Medical, Dental, Optometry, Veterinary) Schedule Guide


## Program Contact

Francesca Woods
636-922-8638
fwoods@stchas.edu

## Office Coordinator

Denise Lammers
636-922-8280
dlammers@stchas.edu

## Office Info

|  |  | EDU 125, LIT, MUS, PHL, THE, or Foreign Language |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Elective | $\begin{aligned} & \text { BTC/CPT } \\ & 103 \end{aligned}$ | Microcomputer Applications |  |  | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  |  |  | 40 |
|  | OTA 100 | Fundamentals of OTA I |  |  | 4 |  |
|  | OTA 103 | Adaptive Activities I |  |  | 2 |  |
|  | OTA <br> 102/112 | Fundamentals of OTA II \& Lab |  |  | 4 |  |
|  | OTA <br> 104/114 | Adaptive Activities II \& Lab |  |  | 2 |  |
|  | OTA <br> 203/213 | Fundamentals of OTA III \& Lab |  |  | 5 |  |
|  | OTA <br> 204/214 | Fundamentals of OTA IV \& Lab |  |  | 4 |  |
|  | OTA $207 / 217$ | Health \& Disease \& Lab |  |  | 4 |  |
|  | OTA 209 | Health Occupations Seminar |  |  | 2 |  |
|  | OTA 218 | Adaptive Living Skills Lab |  |  | 4 |  |
|  | OTA 210 | OTA Practicum I |  |  | 4 |  |
|  | OTA 211 | OTA Practicum II |  |  | 4 |  |
|  | OTA 298 | OTA Capstone |  |  | 1 |  |
| TOTAL REQUIRED HOURS |  |  |  |  |  | 75 |
| * Pre-requisite must be completed (High School Biology or Equivalent) |  |  |  |  |  |  |
| ** Pre-requisite is required (BIO 240/243-Anatomy and Physiology I) |  |  |  |  |  |  |
| Courses by Semester |  |  |  |  |  |  |
| FIRST SEMESTER (Summer Semester) |  |  |  | 7 |  |  |
| COURSE NUMBER | COURSE NA | AME | CH |  |  |  |
| BIO 240/243 | Anatomy \& | Physiology I * | 4 |  |  |  |
| ENG 101 | English Comp | position | 3 |  |  |  |
| SECOND SEMESTER (Fall Semester) |  |  |  | 15 |  |  |
| COURSE NUMBER | COURSE NA | AME | CH |  |  |  |
| BIO 270 | Kinesiology * |  | 3 |  |  |  |
| PSY 101 | General Psyc | chology | 3 |  |  |  |
| CPT 103 | Microcomput | ter Applications | 3 |  |  |  |
| OTA 100 | Fundamental | Is of OTA I | 4 |  |  |  |
| OTA 103 | Adaptive Activ | ivities I | 2 |  |  |  |
| THIRD SEMESTER (Spring Semester) |  |  |  | 17 |  |  |
| COURSE NUMBER | COURSE NAME |  | CH |  |  |  |
| BIO 241/244 | Anatomy \& Physiology II ** |  | 4 |  |  |  |
| ENG 102 or ENG 115 or ENG 125 | English Composition II or Technical Writing or Business Writing |  | 3 |  |  |  |
| OTA 102/112 | Fundamentals of OTA II \& Lab |  | 4 |  |  |  |
| OTA <br> 104/114 | Adaptive Activities II \& Lab |  | 2 |  |  |  |

## Office Hours

8:00 a.m.-4:30 p.m. Monday-Friday. Hours may vary during summer please call to confirm.

## Office Location

Center for Nursing and Allied Health Sciences, Suite 102

## Office Phone Number

636-922-8280

| OTA <br> 207/217 | Health \& Disease \& Lab | 4 |  |
| :---: | :---: | :---: | :---: |
| FOURTH SEMESTER (Summer Semester) |  |  | 9 |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIS 101 or HIS 102 or HIS 115 or HIS 270 or POL 101 or POL 102 | US History to 1877 <br> US History since 1877 <br> US History Since 1945 <br> History of Missouri <br> American Government <br> State \& Local Government | 3 |  |
| PSY 210 | Human Growth \& Development | 3 |  |
| SPE 101 | Oral Communications | 3 |  |
| FIFTH SEMESTER (Fall Semester) |  |  | 18 |
| COURSE NUMBER | COURSE NAME | CH | 9 |
| OTA203/213 | Fundamentals of OTA III \& Lab | 5 |  |
| OTA204/214 | Fundamentals of OTA IV \& Lab | 4 |  |
| OTA 218 | Adaptive Living Skills Lab | 4 |  |
| OTA 209 | Health Occupations Seminar | 2 |  |
| HUM | Any ART, BUS/CPT 105, DAN 196, 197, 198, 199, EDU 125, LIT, MUS, PHL, THE, or Foreign Language | 3 |  |
| SIXTH SEMESTER (Spring Semester) |  |  |  |
| OTA 210 | OTA Practicum I | 4 |  |
| OTA 211 | OTA Practicum II | 4 |  |
| OTA 298 | OTA Capstone | 1 |  |
| Total Hours Required for Graduation |  |  | 75 |



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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » General Option A.A.S.

General Option A.A.S.


## What Is Human Services?

This degree provides practical information for professional helping techniques, understanding human behavior and policy/program development, with internship opportunities that provide real work experience. Through this program individuals learn how to help people overcome obstacles in their lives by developing interpersonal and intercultural communication skills.

Students acquire knowledge of current strategies to serve individuals, groups and communities experiencing problems related to poverty, abuse, mental and physical illness, disability, crime, unemployment, discrimination, aging and family dysfunction. Students will learn to link people with services such as education or training, financial assistance, child care, shelter, addictions treatment, mental health services and senior services. With this degree students have the educational foundation to successfully work in human services positions in both the private and public sectors.

Human Service professionals with an A.A.S. degree help clients to identify and obtain benefits and services. In addition to initially connecting clients with benefits or services they often follow up with clients to ensure that they are receiving the services and that the services are meeting their needs.

People interested in this program should enjoy working with people. They should

## Occupational Outlook

Because of the multitude of careers in this field, the outlook is varied. Positions that have a bright outlook include child support services worker, family caseworker, patient advocate and youth services specialist. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in high-growth industries.

The U.S. Department of Labor's Bureau of Labor Statistics projects the number of human service professionals will grow by nearly 22 percent through 2022, which is much faster than the average for all occupations.

Source: Occupational Outlook Handbook


Apply
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## FIND OUT MORE!

about SCC
Success Story

## Abby Jackson

"I was raised around educators and knew from an early age I had a passion for helping others."

Full Story
Department

Human Services

## Related Degrees/ Certificates

- Gerontology Option A.A.S.
- Substance Abuse Services Option A.A.S.
- Victimology Option A.A.S.
- Youth Services Option A.A.S.


## Program Contact

## Sylvia Malta

636-922-8486
smalta@stchas.edu

## Office Info

## Office Hours

Monday-Friday
possess good verbal and oral
communications and problem-solving skills and have a positive attitude about
themselves and others.

Learn more from SCC Career Services

## Human Services Careers

SCC graduates with an Associate of Applied Science (A.A.S.) degree in human services are employed in a broad range of careers including, but not limited to: administrative service manager, camp director, child support services worker, family caseworker, community welfare worker, missionary worker, patient advocate, Peace Corps worker, social and human service assistant and youth services specialist.

Career options range from working with children and families, people with physical, emotional or intellectual challenges, military veterans, homeless people, struggling communities, law enforcement, as well as the specialization options of this degree.

| Degree Name: | General Option A.A.S. |
| :--- | :--- |
| Degree or Program: | Human Service |
| Degree Type: | Associate of Applied Science Degree |
| Description: <br> This program provides a basic social science framework and perspective for a career in <br> human services and upgrading current skills. |  |


| General Education Requirements: |  |  | $\mathbf{2 4}$ <br> $\mathbf{2}$ |
| :--- | :--- | :--- | :--- | :--- |
|  | COURSE <br> NUMBER | COURSE NAME | CREDIT |
| Mathematics | MAT 105 <br> or higher | Applied Math or higher |  |$|$| HORS |
| :--- |




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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog > Degrees \& Certificates » Substance Abuse Services Option A.A.S.

## Substance Abuse Services Option A.A.S.



## What Is Human

## Services - Substance Abuse Services?

This degree provides opportunities for students interested in obtaining knowledge and skills specific to working with people struggling with alcohol and drug addiction, eating disorders and other behavior problems, with internship opportunities that provide real work experience. Students acquire knowledge of current strategies to serve individuals, families, communities, plus educational, legal and geopolitical systems experiencing problems related to a wide variety of addictions and behavior disorders.

Through this program students will learn individual, family and group counseling techniques, as well as assessment, treatment planning, prevention and other topics related to addiction. Students also acquire knowledge of aftercare support to respond to addiction which is the number one public health issue in the U.S. today, according to the National Association for Addiction Professionals. With this degree, students have the educational foundation to successfully meet the growing demand for professionals as addiction services are increasingly covered by insurance policies.

Human service professionals with an Addictions Option A.A.S. degree provide treatment and support to help people recover from addiction or modify problem behaviors. They also teach families to develop coping strategies for addiction or behavior disorders; refer clients to

## Occupational Outlook

The U.S. Department of Labor's Bureau of Labor Statistics projects the number of addiction professionals will grow by nearly 31 percent through 2022, which is much faster than the average for all occupations.

Source: Occupational Outlook Handbook


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Success Story

## Abby Jackson

"I was raised around educators and knew from an early age I had a passion for helping others."

Full Story
Department

Human Services

## Related Degrees/ Certificates

- General Option A.A.S.
- Gerontology Option A.A.S.
- Victimology Option A.A.S.
- Youth Services Option A.A.S.


## Program Contact

Sylvia Malta
636-922-8486
smalta@stchas.edu

## Office Info

## Office Hours

Monday-Friday
7:45 a.m.-4:15 p.m.
resources including job placement and support groups; and conduct outreach programs to identify the signs of destructive behavior, as well as how to avoid such behavior.

People interested in this program should enjoy working with people. They should possess good verbal and oral communications and problem-solving skills and have a positive attitude about themselves and others.

## Learn more from SCC Career Services

## Human Services Careers Substance Abuse Services

SCC graduates with an Associate of Applied Science (A.A.S.) degree in substance abuse services are employed in a broad range of careers including, but not limited to: alcoholism education counselor, alcohol and drug abuse assistance coordinator, case worker, early intervention service coordinator, house parent, substance abuse specialist and vocational rehabilitation counselor.

## Salary Outlook

In the state of Missouri, employees working as substance abuse counselors or mental health and substance abuse social work occupations earn an average between \$33,710-36,970 per year, depending on education, experience and employer. Source: Bureau of Labor Statistics.

According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

Graduates can work in a wide variety of settings, such as treatment programs, outpatient centers, schools, law enforcement, businesses, community mental health centers and private practice.

## Office Location

Social Sciences Building, Room 1104

## Office Phone Number

| Degree Name: |  | Substance Abuse Services Option A.A.S. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Degree or Program: |  | Human Service |  |  |
| Degree Type: |  | Associate of Applied Science Degree |  |  |
| Description: <br> This program provides students with a basic social science framework and perspective for pursuing a career in human services. The program also provides currently employed human services workers the opportunity to upgrade their skills. |  |  |  |  |
| General Education Requirements: |  |  |  | 24-25 |
|  | COURSE NUMBER | COURSE NAME |  |  |
| Mathematics | Mat 105 or higher | Applied Math or higher | 3-4 |  |
| Communication | ENG 101 <br> ENG 125 <br> SPE 101 | English Composition I <br> Business Writing <br> Oral Communication | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101 or HIS 102 or HIS 115 or HIS 270 or POL 101 or POL 102 | U.S. History to 1877 <br> U.S. History Since 1877 <br> U.S. History Since 1945 <br> History of Missouri <br> American Government <br> State \& Local Government | 3 |  |
| Natural Science |  | Any BIO, CHM or PHY | 3 |  |
| Humanities |  | Any Humanities | 3 |  |
| Elective | BTC/CPT 103 | Microcomputer Applications | 3 |  |


| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  | 37 |
| :---: | :---: | :---: | :---: |
| HMS 100 | Introduction to Human Services | 3 |  |
| HMS 101 | Theories and Skills | 3 |  |
| HMS 102 | Policy and Politics | 3 |  |
| HMS 103 | Addictive Disease Concepts | 3 |  |
| HMS 104 | Treatment-Alcohol and Drug Abuse | 3 |  |
| HMS 201 | Human Services Practicum I* | 3 |  |
| HMS 202 | Human Services Practicum II* | 3 |  |
| HMS 203 | Human Services Practicum Seminar I | 3 |  |
| HMS 204 | Human Services Practicum Seminar II | 3 |  |
| HMS 298 | Human Services Capstone | 1 |  |
| CRJ 230 | Crisis Intervention | 3 |  |
| CRJ 205 OR HMS/CRJ 290 | Juvenile Justice System OR Special Topics in Human Services/Criminal Justice | 3 |  |
| SOC 101 | Introduction to Sociology | 3 |  |
| TOTAL REQUIRED HOURS |  |  | 61-62 |
| *Practicum oriented toward option area. |  |  |  |
| For more information, call 636-922-8241. |  |  |  |



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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Victimology Option A.A.S.

## Victimology Option A.A.S.



## What Is Human Services Victimology?

This degree provides opportunities for students interested in obtaining knowledge and skills specific to working to assist victims of crime, with internship opportunities that provide real work experience. Students acquire knowledge of current strategies for advocating for victims throughout the criminal justice system.

Through this program students learn how police, courts, social services, correctional facilities, probation/parole and other professionals work together to best serve crime victims. Students also acquire an understanding of crisis intervention, community services, victim's rights and crime prevention. With this degree students have the educational foundation to successfully work in a wide variety of ways in both the adult and juvenile justice systems.

Human service professionals with a Victimology Option A.A.S. degree provide relevant information to help crime victims in their decision-making processes. They also give emotional support as needed to victims.

People interested in this program should enjoy working with people. They should possess good verbal and oral communications and problem-solving skills and have a positive attitude about themselves and others.

## Occupational Outlook

The U.S. Department of Labor's Bureau of Labor Statistics projects the number of addiction professionals will grow by 25 percent through 2020, which is much faster than the average for all occupations.

Sources: Occupational Outlook Handbook


FIND OUT MORE!
about SCC

## Success Story

## Abby Jackson

"I was raised around educators and knew from an early age I had a passion for helping others."

Full Story
Department

Human Services

## Related Degrees/

 Certificates- General Option A.A.S.
- Gerontology Option A.A.S.
- Substance Abuse Services Option A.A.S.
- Youth Services Option A.A.S.


## Program Contact

## Sylvia Malta

636-922-8486
smalta@stchas.edu

## Office Info

## Office Hours

Monday-Friday

## Human Services Careers Victimology

SCC graduates with an Associate of Applied Science (A.A.S.) degree in victimology are employed in a broad range of careers including, but not limited to: child support services worker, community welfare worker, marriage and family therapists, social and human services assistant, victim advocate and youth services specialist.

Graduates can work in a wide variety of settings including adult and juvenile court systems, law enforcement agencies, probation services, correctional facilities and other public and private agencies.

## Office Location

Social Sciences Building, Room 1104
Office Phone Number
636-922-8398


|  | CRJ 210 | Victim Services | 3 |
| :--- | :--- | :--- | :--- |
|  | CRJ 230 OR <br> HMS/CRJ 290 | Crisis Intervention OR <br> Special Topics in Human <br> Services/Criminal Justice | 3 |



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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog » Degrees \& Certificates » Youth Services Option A.A.S.

## Youth Services Option A.A.S.



## What Is Human Services

 - Youth Services?This degree provides opportunities for students interested in obtaining knowledge and skills specific to working with at-risk youth. Students acquire knowledge of current strategies for working with runaways, homeless youth and victims of family violence. Through this program students learn how to work with youths so they can learn the necessary skills to become successful adults. Students will also acquire knowledge of assisting families meet their basic needs for their children. With this degree students have the educational foundation to successfully ensure that children grow up in safe and healthy homes.

Human service professionals with a Youth Services Option A.A.S. degree protect the youngest members of our communities. They also provide education and prevention services to a variety of community settings.

People interested in this program should enjoy working with people. They should possess good verbal and oral communications and problem-solving skills and have a positive attitude about themselves and others.

## Learn more from SCC Career Services

## Human Services Careers Youth Services

## Salary Outlook

In the state of Missouri, employees working


FIND OUT MORE!

## Occupational Outlook

Because of the multitude of careers in this field, the outlook is varied. There is a bright outlook for child support services workers. This position is projected to experience rapid increases in employment with large numbers of job openings over the next several years.

The U.S. Department of Labor's Bureau of Labor Statistics projects the number of youth services professionals will grow by 27 percent through 2020, which is much faster than the average for all occupations.

Sources: Occupational Outlook Handbook


## Sylvia Malta

636-922-8486 smalta@stchas.edu

## Office Info

## Office Hours

Monday-Friday

SCC graduates with an Associate of Applied Science (A.A.S.) degree in youth services are employed in a broad range of careers including, but not limited to: child support services worker, family advocate, family services specialist, youth services specialist, youth program coordinator, social and human service assistant.

Graduates can work in a wide variety of settings including child protective services, residential programs, abuse prevention services, juvenile courts and treatment programs, homeless shelters, schools and other public and private agencies.
in child, family and school social work occupations earn an average of $\$ 33,960$ per year, depending on education, experience and employer.
Source: Bureau of Labor Statistics
According to the U.S. Department of Labor,
earnings increase significantly as a worker's degree of education rises.

7:45 a.m.-4:15 p.m.
Office Location
Social Sciences Building, Room 1104

## Office Phone Number

636-922-8398

| Degree Name: | Youth Services Option A.A.S. |  |
| :--- | :--- | :--- | :--- | :--- |
| Degree or Program: | Human Service |  |
| Degree Type: | Associate of Applied Science Degree |  |
| Description: <br> This program provides students with a basic social science framework and perspective <br> for pursuing a career in human services. The program also provides currently employed <br> human services |  |  |
| workers the opportunity to upgrade their skills. |  |  |


| SOC 101 | Introduction to Sociology | 3 |
| :--- | :--- | :--- |
| TOTAL REQUIRED HOURS |  |  |
| * Practicum oriented toward option area. |  |  |
| For more information, call 636-922-8241. |  |  |

Request for Info FAQs Forms \& Applications Map \& Directions Employment Campus Police Site Map Mission Privacy Info © 2015 St. Charles Community College | 4601 Mid Rivers Mall Drive | Cottleville, MO 63376 | 636-922-8000 | Email info_desk@stchas.edu | Copyright


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## Degree Info.

The Associate of Applied Science Degree is awarded to students completing the requirements of one of the career-technical programs. Although this is not intended to be a transfer degree, some courses do transfer to four-year institutions.

- Graduation Requirements
- High School Articulation Agreements

Home » Academics » College Catalog > Degrees \& Certificates » Skilled Trades A.A.S.

## Skilled Trades A.A.S.

| Degree Name: | Skilled Trades A.A.S. |
| :--- | :--- |
| Degree or Program: | Skilled Trades |
| Degree Type: | Associate of Applied Science Degree |

Description: This degree program is for students who have completed an approved apprenticeship training program. It allows a union apprentice or journeyman to receive college credit for previously acquired knowledge, skills, and experience by applying those credits towards the associate's degree. The A.A.S. in Skilled Trades may enable students to pursue an advanced degree at a four-year institution in fields such as construction technology, construction management, or related areas.

The Skilled Trades Apprenticeship Training Program at SCC recognizes the core curriculum of any apprenticeship training program that is approved by the Bureau of Apprenticeship and Training. If your training meets these standards, your journeyman status can be transferred to SCC as credit to satisfy a portion of the specific program requirements needed for an associate's degree. These 40 credit hours will be granted at the completion of all the other A.A.S. degree requirements.


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| PC Operating Systems |  |
| :--- | :--- | :--- |
| CORE COURSE REQUIREMENTS MUST INCLUDE: | 40 |
| This requirement is fulfilled by the approved completion of the Journeyman's <br> Certificate from the Bureau of Apprenticeship and Training, a division of the <br> U.S. Department of Labor. These credit hours will be granted at the <br> completion of all the other A.A.S. degree requirements. |  |
| TOTAL REQUIRED HOURS | $64-$ |
|  | 65 |

## flober

Associate of Arts in Teaching
Degree - 2014-15
Graduation Requirements

## Education

- Elementary Education Transfer Program A.A.T.
- Secondary Education Transfer Program A.A.T.



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## Degree Info.

The Associate of Arts in Teaching Degree is a transfer degree for future educators.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Elementary Education Transfer Program A.A.T.
Elementary Education Transfer Program A.A.T.

| Degree Name: | Elementary Education Transfer Program A.A.T. |
| :--- | :--- |
| Degree or Program: | Education |
| Degree Type: | Associate of Arts in Teaching Degree |

## Description:

The Missouri public 4-year institutions of higher education, and some private 4-year institutions, have agreed to accept the AAT as equivalent to their first two years of teacher education. Thus, a student who completes an AAT at SCC should have no more credit hours to complete during the last two years than a native 4-year student at that institution. Because course content is organized in different configurations at different institutions, you may repeat some content areas, but not credit hours. Students who do not complete the AAT will transfer course by course; individual institutions have agreed to transfer specific courses but have not guaranteed that students will have no more credits to complete than their native students. Check with your transfer institution to see if you will need to have a certain score on the ACT test for admittance to their institution.

The most current listing of institutions that will accept the AAT is available at http://www.dhe.mo.gov/cota. Students need to work closely with their transfer institution to ensure that courses taken at SCC will meet degree requirements and that all entrance requirements have been met for the transfer school.

General Education Requirements
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| Subject | Course Number | Course Name |  |
| :---: | :---: | :---: | :---: |
| Mathematics | MAT 156 | College Algebra - Educators | 4 |
| Communication | ENG 101 <br> ENG 102 <br> SPE 101 or <br> SPE 102 | English Composition I <br> English Composition II <br> Oral Communications <br> Public Speaking | 9 |
| Social Science | PSY 101 <br> HIS 102 or <br> HIS 146 <br> POL 101 or <br> POL 102 | Introduction to Psychology US History Since 1877* Western Civ: Modern Europe American Government* State and Local Government | 9 |
| Natural Science | Pick an option: |  | 11 |
|  | Option One: BIO 105 and CHM 115 and PHY 111 | Essentials of Biology <br> General Chemistry I <br> Introduction to Physical <br> Science |  |
|  | Option Two (must take two lab courses): <br> BIO 105/106 and CHM 101/103 and PHY 111/113 | Essentials of Biology with Lab Introduction to Chemistry with Lab |  |

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## about SCC

## Department

## Education

## Related Degrees/ Certificates

- Child Care \& Early Education A.A.S.
- Child Care \& Early Education C.A.
- Paraprofessional/Substitute Teacher A.A.S.
- Secondary Education Transfer Program A.A.T.


## Program Contact

## Nicole Nunn-Faron

636-922-8242
nnunnfaron@stchas.edu

## Office Coordinator

## Phyllis Marchand

636-922-8496
phyllis_marchand@stchas.edu

## Office Info

## Office Hours

8 a.m.-4:30 p.m.

|  |  | Introduction to Physical <br> Science with Lab |  |
| :--- | :--- | :--- | :--- |
| Humanities | LIT 271 AND | Literature and Contemporary <br> Cultures <br> American Literature from 1620- <br> 1865 <br> American Literature from 1865- <br> Present | 6 |
| Multicultural 210 OR | GEO 100 OR <br> ANT 102 | Principles of Geography <br> Introduction to Cultural <br> Anthropology | 3 |

## Office Location

ADM 2242
Office Phone Number

CORE COURSE REQUIREMENTS MUST INCLUDE: All EDU courses must be completed with a grade of " C " or higher and cumulative GPA of 3.00

|  | EDU 211 | Foundations of Education | 3 |
| :--- | :--- | :--- | :--- |
|  | EDU 220 | Technology for Teachers | 3 |
|  | EDU 240 | Education Psychology | 3 |
|  | EDU 285 | Teaching Profession with Field <br> Experience | 3 |
|  | EDU 290 | Portfolio Assessment in <br> Education** | 1 |


| ELECTIVE COURSES** | 9 |
| :---: | :---: |


|  | Choose one: <br> EDU 242 <br> EDU 246 | Art for Children <br> Music for Children | 3 |
| :--- | :--- | :--- | :--- |
|  | Choose two: <br> EDU 125 <br> EDU 225 <br> EDU 244 | Teaching Literature through <br> Storytelling <br> Literature for Children <br> Physical Education for <br> Elementary Grades <br> Education for Exceptional <br> Learners | 6 |

TOTAL REQUIRED HOURS

* Students must take either HIS 102 or POL 101 to meet state requirements
** Entire Mogea must be passed for successful completion of EDU 290. MOGEA Exam covers English, Math, Science and Social Studies - must achieve a passing score in all areas - recommend taking before completion of 30 credit hours.

Courses by Semester

| FIRST SEMESTER |  |  | 15 |
| :--- | :--- | :--- | :--- |
| Course Number | Course Name | CH |  |
| ENG 101 | English Composition I | 3 |  |
| PSY 101 | Introduction to Psychology | 3 |  |
| MAT 156 | College Algebra - Educators | 4 |  |
| Science | Natural Science with Lab | 4 |  |
| COL 101 | College Success Seminar* | 1 |  |
| SECOND SEMESTER |  | CH |  |
| Course Number | Course Name | 3 |  |
| ENG 102 | English Composition II | 3 |  |
| EDU 211 | Foundations of Education | 3 |  |
| GEO 100 | Principles of Geography | 3 |  |
| EDU 220 | Technology for Teachers | 3 |  |
| EDU 240 | Education Psychology |  |  |

## Elementary Education Transfer Program A.A.T. | SCC Degree

| Science | Natural Science | 3 |  |
| :---: | :---: | :---: | :---: |
|  | Take MOGEA Exam |  |  |
| THIRD SEMESTER |  |  | 16 |
| Course Number | Course Name | CH |  |
| EDU 285 | Teaching Profession w/ Field Experience | 3 |  |
| Science | Natural Science with Lab | 4 |  |
| POL 101 | American Government | 3 |  |
| HIS 102 | US History Since 1877 | 3 |  |
| LIT 210 OR <br> LIT 220 | American Lit from 1620-1865 OR American Lit from 1865-Present | 3 |  |
| FOURTH SEMESTER |  |  | 16 |
| Course Number | Course Name | CH |  |
| EDU 290 | Education Portfolio | 1 |  |
| EDU 242 OR EDU 246 | Art for Children OR Music for Children | 3 |  |
| SPE 101 | Oral Communication | 3 |  |
| LIT 271 | Literature and Contemporary Cultures | 3 |  |
| Elective** | Education Elective | 3 |  |
| Elective** | Education Elective | 3 |  |
| * College requirement <br> ** Education Electives: It is essential that you check with your transfer college for transferable courses. |  |  |  |



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## Degree Info.

The Associate of Arts in Teaching Degree is a transfer degree for future educators.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Secondary Education Transfer Program A.A.T.

## Secondary Education Transfer Program A.A.T.

| Degree Name: | Secondary Education Transfer Program A.A.T. |
| :--- | :--- |
| Degree or Program: | Education |
| Degree Type: | Associate of Arts in Teaching Degree |

## Description:

The Missouri public 4-year institutions of higher education, and some private 4-year institutions, have agreed to accept the AAT as equivalent to their first two years of teacher education. Thus, a student who completes an AAT at SCC should have no more credit hours to complete during the last two years than a native 4-year student at that institution. Because course content is organized in different configurations at different institutions, you may repeat some content areas, but not credit hours. Students who do not complete the AAT will transfer course by course; individual institutions have agreed to transfer specific courses but have not guaranteed that students will have no more credits to complete than their native students. Check with your transfer institution to see if you will need to have a certain score on the ACT test for admittance to their institution.

The most current listing of institutions that will accept the AAT is available at http://www.dhe.mo.gov/cota. Students need to work closely with their transfer institution to ensure that courses taken at SCC will meet degree requirements and that all entrance requirements have been met for the transfer school.

| General Education Requirements | 42 |
| :--- | :--- |


| Subject | Course Number | Course Name | Credit <br> Hours |
| :---: | :---: | :---: | :---: |
| Mathematics* | MAT 156 OR MAT 162 | College Algebra - <br> Educators <br> College Algebra - STEM | 4 |
| Communication | ENG 101 <br> ENG 102 <br> SPE 101 or <br> SPE 102 | English Composition I <br> English Composition II <br> Oral Communications <br> Public Speaking | 9 |
| Social Science | PSY 101 <br> HIS 102 or <br> HIS 146 <br> POL 101 or <br> POL 102 | Introduction to <br> Psychology <br> US History Since 1877** <br> Western Civilization: <br> Modern Europe <br> American Government** <br> State and Local <br> Government | 9 |
| Natural <br> Science | Choose one option: |  | 11 |
|  | Option One: BIO 105 and CHM 115 and PHY 111 | Essentials of Biology General Chemistry I Introduction to Physical Science |  |
|  | Option Two (must take two lab courses): |  |  |



FIND OUT MORE!
about SCC

## Department

## Education

## Related Degrees/ Certificates

- Child Care \& Early Education A.A.S.
- Child Care \& Early Education C.A.
- Elementary Education Transfer Program A.A.T.
- Paraprofessional/Substitute Teacher A.A.S.
Program Contact


## Nicole Nunn-Faron

636-922-8242
nnunnfaron@stchas.edu

## Office Coordinator

## Phyllis Marchand

636-922-8496
phyllis_marchand@stchas.edu

## Office Info

## Office Hours

8 a.m. $-4: 30$ p.m.

|  | BIO 105/106 and CHM 101/103 and PHY 111/113 | Essentials of Biology with Lab <br> Introduction to Chemistry with Lab <br> Introduction to Physical <br> Science with Lab |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Humanities | LIT 271 AND <br> LIT 210 OR <br> LIT 220 | Literature and Contemporary Cultures American Literature from 1620-1865 <br> American Literature from 1865-Present | 6 |  |
| Multicultural | GEO 100 OR <br> ANT 102 | Principles of Geography Introduction to Cultural Anthropology | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: AII EDU courses must be completed with a grade of "C" or higher and cumulative GPA of 3.00 |  |  |  | 13 |
|  | EDU 211 | Foundations of Education | 3 |  |
|  | EDU 220 | Technology for Teachers | 3 |  |
|  | EDU 240 | Education Psychology | 3 |  |
|  | EDU 285 | Teaching Profession with Field Experience | 3 |  |
|  | EDU 290 | Portfolio Assessment in Education*** | 1 |  |
| ELECTIVE COURSES |  |  |  | 9 |
|  | Choose two: <br> EDU 125 <br> EDU 225 <br> EDU 242 <br> EDU 244 <br> EDU 246 <br> EDU 250 | Teaching Literature through Storytelling Literature for Children Art for Children Physical Education for Elementary Grades Music for Children Education for Exceptional Learners | 6 |  |
|  | Choose One: <br> PSY 210 <br> PSY 215 <br> Any content area course above what is required for the A.A.T. | Human Growth and <br> Development <br> Adolescent Psychology | 3 |  |

## Office Location

ADM 2242
Office Phone Number

TOTAL REQUIRED HOURS

* If a 3-credit MAT 162 equivalent is taken, an additional credit hour must be taken in General Education
** Students must take HIS 102 or POL 101 to meet state requirements.
*** Entire MOGEA must be passed for successful completion of EDU 290. MOGEA Exam covers English, Math, Science and Social Studies - must achieve a passing score in all areas - recommend taking before completion of 30 credit hours.


## Courses by Semester

| FIRST SEMESTER |  |  | 15 |
| :--- | :--- | :--- | :--- |
| Course Number | Course Name | CH |  |
| ENG 101 | English Composition I | 3 |  |
| PSY 101 | Introduction to Psychology | 3 |  |
| MAT 156 | College Algebra - Educators OR <br> College Algebra STEM | 4 |  |
|  |  |  |  |


| Science | Natural Science with Lab | 4 |  |
| :---: | :---: | :---: | :---: |
| COL 101 | College Success Seminar* | 1 |  |
| SECOND SEMESTER |  |  | 18 |
| Course Number | Course Name | CH |  |
| ENG 102 | English Composition II | 3 |  |
| EDU 211 | Foundations of Education | 3 |  |
| GEO 100 | Principles of Geography | 3 |  |
| EDU 220 | Technology for Teachers | 3 |  |
| EDU 240 | Education Psychology | 3 |  |
| Science | Natural Science | 3 |  |
|  | Take MOGEA Exam |  |  |
| THIRD SEMESTER |  |  | 16 |
| Course Number | Course Name | CH |  |
| EDU 285 | Teaching Profession w/ Field Experience | 3 |  |
| Science | Natural Science with Lab | 4 |  |
| POL 101 | American Government | 3 |  |
| HIS 102 | US History Since 1877 | 3 |  |
| LIT 210 OR <br> LIT 220 | American Lit from 1620-1865 OR American Lit from 1865-Present | 3 |  |
| FOURTH SEMESTER |  |  | 16 |
| Course Number | Course Name | CH |  |
| EDU 290 | Education Portfolio | 1 |  |
| SPE 101 | Oral Communication | 3 |  |
| LIT 271 | Literature and Contemporary Cultures | 3 |  |
| Elective** | Education Elective | 3 |  |
| Elective** | Education Elective | 3 |  |
| Elective** | Education Elective | 3 |  |
| * College Requirement <br> ** Education Electives: It is essential that you check with your transfer college for transferable courses. |  |  |  |

## fㅁㅁ뭉

Associate of Science Degrees -2014-15

Graduation Requirements
Biology

- Pre-Engineering Transfer Program A.S.

Chemistry

- Health Information Technology A.S.

Engineering

- Pre-Engineering Transfer Program A.S.

Health

- Health Information Management A.S.
- Nursing A.S.

Health Information Management

- Health Information Management A.S.

Nursing

- Nursing A.S.

Pre-Pharmacy

- Pre-Pharmacy A.S.


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## Degree Info.

$\qquad$
The Associate of Science degree is awarded to students completing the requirements of specifically identified programs with a minimum of 64 semester hours. The work parallels the work done in the first two years of a Bachelor of Science degree at four-year institutions. The programs leading to the Associate of Science degree at SCC include Biology, Chemistry, Health Information Technology, Nursing, Pre-Engineering and Pre-Pharmacy.

Home » Academics » College Catalog » Degrees \& Certificates » Biology A.S.

## Biology A.S.

| Degree Name: | Biology A.S. |
| :--- | :--- |
| Degree or Program: | Biology |
| Degree Type: | Associate of Science Degree |
| Description: |  |
| This Associate of Science in Biology degree program prepares students to transfer to a |  |
| four-year college or university to major in biology. Because requirements vary at each |  |
| four-year college or university, students should check with their advisor and the institution |  |
| they plan to transfer to ensure they are enrolled in the correct courses. |  |


| General education Requirements | $35-$ |
| :--- | :--- |
|  | 37 |


|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| :---: | :---: | :---: | :---: | :---: |
| Mathematics | MAT 180 or $210{ }^{* *}$ | Calculus and Analytic Geometry I or Survey Calculus** | 5 |  |
| Communication | ENG 101 <br> ENG 102 <br> SPE 101 or <br> SPE 110** | English Composition I <br> English Composition II Oral Communications or Interpersonal Communication** | 3 3 3 |  |
| Social Science | HIS 101 or 102 or 115 or 270 or POL 101 or 102 <br> Elective | US History or American Government <br> See course descriptions in catalog** | 3 3 |  |
| Natural <br> Science | BIO 150 <br> CHM 115 | General Biology I <br> General Chemistry I | 5 |  |
| Humanities | Elective | See course descriptions in catalog** | 3 |  |
| Elective | Humanities or Social Sciences Elective or BIO course numbered 200 +or CHM 222** | See course descriptions in catalog** |  |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | $\begin{aligned} & 26- \\ & 27 \end{aligned}$ |
| Biology | BIO 151 | General Biology II | 5 |  |
| Chemistry | CHM 116 <br> CHM 240 <br> CHM 241 <br> CHM 243 | General Chemistry II Organic Chemistry I Organic Chemistry II Organic Chemistry lab | 5 3 3 2 |  |
| Physics | PHY 150/153 PHY 151/154 | General Physics I with lab <br> General Physics II with lab | 4 4 |  |



## FIND OUT MORE!

about SCC

## Department

## Biology

## Program Contact

Monica Hall-Woods
636-922-8634
mhall-woods@stchas.edu

## Office Coordinator

Vicki Remington
636-922-8351
vremington@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Office Location
Administration Building, Room 2442

## Office Phone Number

636-922-8351

COLLEGE REQUIREMENT:

| For first time <br> college <br> students. | COL 101 | College Success <br> Seminar | 1 |  |
| :--- | :--- | :--- | :--- | :--- |
| TOTAL REQUIRED HOURS |  | $61-$ <br> 64 |  |  |

+ Humanities/Social Science Electives - Typical social science courses include history, political science, sociology, psychology and economics. Humanities courses typically include literature, philosophy, and non-applied art, music and theater courses. Check transfer school's requirements before choosing these courses.
^ This elective includes the Humanities/Social Science Electives but can also be used for any other course required by the transfer institution. Check transfer school's requirements before choosing this course.
* The Academic Skills Assessment or appropriate ACT scores are required before enrolling in Math or English classes.
** Check with transfer institution to see which course is required for the desired biology degree.
- COL 101 is a SCC requirement for all first time college students.

Courses by Semester

| FIRST SEMESTER |  |  | 15-16 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| PHY 150/153 | General Physics I and Lab (Fall only) | 4 |  |
| CHM 115 | General Chemistry I | 5 |  |
| ENG 101 | English Composition I* | 3 |  |
| HIS/POL | U.S. History or American Government | 3 |  |
| COL 101 - | College Success Seminar | 1 |  |
| SECOND SEMESTER |  |  | 13-14 |
| COURSE NUMBER | COURSE NAME | CH |  |
| MAT 180 or 210 | Calculus and Analytic Geometry I or Survey Calculus* | 4-5 |  |
| PHY 151/154 | General Physics II and Lab (Spring only) | 4 |  |
| CHM 116 | General Chemistry II | 5 |  |
| THIRD SEMESTER |  |  | 17 |
| COURSE NUMBER | COURSE NAME | CH |  |
| CHM 240 | Organic Chemistry I | 3 |  |
| SPE 101 or 110 | Oral Communication or Interpersonal Communication ** | 3 |  |
| BIO 150 | General Biology I | 5 |  |
| ENG 102 | English Composition II | 3 |  |
| Humanities elective+ |  | 3 |  |
| FOURTH SEMESTER |  |  | 16-17 |
| COURSE NUMBER | COURSE NAME | CH |  |
| CHM 241 | Organic Chemistry II (Spring only) | 3 |  |
| CHM 243 | Organic Chemistry Lab (Spring only) | 2 |  |
| BIO 151 | General Biology II | 5 |  |
| Social Science elective+ |  | 3 |  |
| Elective^ | 200+ level biology course or CHM 222 | 3-4 |  |
| Total Hours Required for Graduation |  |  | 61-64 |



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## Degree Info.

The Associate of Science degree is awarded to students completing the requirements of specifically identified programs with a minimum of 64 semester hours. The work parallels the work done in the first two years of a Bachelor of Science degree at four-year institutions. The programs leading to the Associate of Science degree at SCC include Biology, Chemistry, Health Information Technology, Nursing, Pre-Engineering and Pre-Pharmacy.

Home » Academics » College Catalog » Degrees \& Certificates » Chemistry A.S.

## Chemistry A.S.

| Degree Name: | Chemistry A.S. |
| :--- | :--- |
| Degree or Program: | Chemistry |
| Degree Type: | Associate of Science Degree |
| Description: <br> This Associate of Science in Chemistry degree program prepares students to transfer to <br> a four-year college or university to major in chemistry. Because requirements vary at <br> each four-year college or university, students should check with their advisor and the <br> institution they plan to transfer to ensure they are enrolled in the correct courses. |  |
| General Education Requirements | $31-33$ |




## FIND OUT MORE!

about SCC

## Department

## Chemistry

## Program Contact

Elizabeth Michael-Smith 636-922-8652
bmichael-smith@stchas.edu

## Office Coordinator

Vicki Remington
636-922-8351
vremington@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Office Location
Administration Building, Room 2442
Office Phone Number
636-922-8351
+Humanities/Social Science Electives- Typical social science courses include history, political science, sociology, psychology and economics. Humanities courses typically include literature, philosophy, and non-applied art, music and theater courses. Check transfer school's requirements before choosing these courses.
${ }^{\wedge}$ This elective includes the Humanities/Social Science Electives but can also be used for any other course required by the transfer institution. Check transfer school's requirements before choosing this course.
*The Academic Skills assessment or appropriate ACT scores are required before enrolling in Math or English classes.
** Check with transfer institution to see which course is required for the desired chemistry degree.

- COL 101 is a SCC requirement for all first time college students.

Courses by Semester

| FIRST SEMESTER |  | COURSE NAME |
| :--- | :--- | :--- |
| COURSE NUMBER | Calculus and Analytic Geometry I* | 5 |
| MAT 180 | General Chemistry I |  |
| CHM 115 | English Composition I* | 5 |
| ENG 101 | U.S. History or American Government | 3 |
| HIS/POL | College Success Seminar | 3 |
| COL 101 - |  | 1 |


| SECOND SEMESTER |  |  |  |
| :--- | :--- | :--- | :--- |
| 15 |  |  |  |
|  | COURSE NAME | CH |  |
| MAT 230 | Calculus and Analytic Geometry II | 5 |  |
| PHY 240/243 | College Physics I and Lab | 5 |  |
| CHM 116 | General Chemistry II | 5 |  |
| THIRD SEMESTER |  | 17 |  |
| COURSE NUMBER | COURSE NAME |  |  |
| CHM 240 | Organic Chemistry I | 3 |  |
| CHM 222 | Quantitative Analysis | 3 |  |
| PHY 241/244 | College Physics II and Lab | 5 |  |
| ENG 102 | English Composition II | 3 |  |
| Humanities elective+ |  | 3 |  |


| FOURTH SEMESTER |  | $14-16$ |  |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME |  |  |
| CHM 241 | Organic Chemistry II (Spring only) | 3 |  |
| CHM 243 | Organic Chemistry Lab (Spring only) | 2 |  |
| SPE 101 or 110 | Oral Communication or Interpersonal <br> Communication ** | 3 |  |
| Social Science elective+ |  | 3 |  |
| Elective^ |  | $3-5$ |  |
| Total Hours Required for Graduation |  | $62-65$ |  |



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## Degree Info.

The Associate of Science degree is awarded to students completing the requirements of specifically identified programs with a minimum of 64 semester hours. The work parallels the work done in the first two years of a Bachelor of Science degree at four-year institutions. The programs leading to the Associate of Science degree at SCC include Biology, Chemistry, Health Information Technology, Nursing, Pre-Engineering and Pre-Pharmacy.

Home » Academics » College Catalog » Degrees \& Certificates » Pre-Engineering Transfer Program A.S.

## Pre-Engineering Transfer Program A.S.

| Degree Name: | Pre-Engineering Transfer Program A.S. |
| :--- | :--- |
| Degree or Program: | Engineering |
| Degree Type: | Associate of Science Degree |
| Students wanting to complete an Associate of Science Degree must follow one of the |  |
| programs outlined in the SCC/Missouri University of Science and Technology "Model |  |
| Program for Engineering Transfers" or SCC/University of Missouri-Columbia "Engineering |  |
| Transfer Program." Should you experience difficulty transferring your SCC coursework to |  |
| another institution, contact the vice president for academic and student affairs for |  |
| assistance with an appeal to the receiving institution. |  |
| Transfer Guides Available: Determination of specific courses should be based on the |  |
| individual engineering area desired (electrical, mechanical, civil, etc.) and the school to |  |
| which you plan to transfer. Transfer Guides are available for Southern Illinois University- |  |
| Carbondale, Missouri University of Science and Technology, UM-Columbia, UM-St. |  |
| Louis/Washington University Joint Engineering Program and Washington University. |  |
| Classes appearing in bold below are standard classes for most engineering degrees at |  |
| most schools of engineering. |  |

+ Humanities/Social Science Electives - Typical social science courses include history, political science, sociology, psychology and economics. Humanities courses typically include literature, philosophy, and non-applied art, music and theater courses. Check transfer school's requirements before choosing these courses.
* The Academic Skills Assessment or appropriate ACT scores are required before enrolling in math or English classes.
** Check with transfer institution to see if this course is required for engineering area desired.

| First Semester |  |  | 17 |
| :--- | :--- | :--- | :--- |
| MAT 180 | Calculus and Analytic Geometry I* | 5 |  |
| CHM 115 (110/113) | General Chemistry I | 5 |  |
| ENG 101 | English Composition I | 3 |  |
|  | U.S. History or American Government | 3 |  |
| COL 101 | College Success Seminar | 1 |  |
|  |  | 5 | 14 |
| Second Semester |  | 5 |  |
| MAT 230 | Calculus and Analytic Geometry II | 3 |  |
| PHY 240/243 | College Physics I and Lab |  |  |
| ENG 102 | English Composition II ** or | 1 |  |
| SPE 101/110 | Oral Communication/Interpersonal Communication ** |  |  |
| EGR 100 | Introduction to Engineering ** | 5 | $\mathbf{1 6}$ |
|  |  | Calculus and Analytic Geometry III |  |
| Third Semester |  |  |  |
| MAT 240 |  |  |  |



## FIND OUT MORE!

## Department

Pre-Engineering/General Technology Department

## Program Contact

David Niermann<br>636-922-8561

dniermann@stchas.edu

## Office Coordinator

## Ginny Tiller <br> 636-922-8334 <br> gtiller@stchas.edu <br> Office Info

## Office Hours

7:30 a.m. -4 p.m.
Monday-Friday
Office Location
Technology Building, Room 105
Office Phone Number
636-922-8334

| PHY 241/244 | College Physics II and Lab | 5 |  |
| :--- | :--- | :--- | :--- |
| EGR 104 | Engineering Design ** | 3 |  |
| EGR 170 | Engineering Mechanics-Statics | 3 |  |
|  |  | $15-$ <br> 16 |  |
| Fourth Semester |  | 3 |  |
| CPT course per transfer institution - CPT 182/186/280/284 ** | 3 |  |  |
| Humanities/social science elective + | 3 |  |  |
| MAT 250 | Differential Equations | 3 |  |
| ECO 110 or 120 | Principles of Macroeconomics or Microeconomics ** | 3 |  |
| EGR 210 | Engineering Mechanics-Dynamics or |  |  |
| EGR 220 | Electrical Circuits ** | 1 |  |
| EGR 221 | Electrical Circuits Lab (optional) |  |  |
|  |  | 64 |  |
| Total Hours Required for Graduation |  |  |  |



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## Degree Info.

The Associate of Science degree is awarded to students completing the requirements of specifically identified programs with a minimum of 64 semester hours. The work parallels the work done in the first two years of a Bachelor of Science degree at four-year institutions. The programs leading to the Associate of Science degree at SCC include Biology, Chemistry, Health Information Technology, Nursing, Pre-Engineering and Pre-Pharmacy.

Home » Academics » College Catalog > Degrees \& Certificates » Health Information Management A.S.

## Health Information Management A.S.

| Degree Name: | Health Information Management A.S. |
| :--- | :--- |
| Degree or Program: | Health Information Management |
| Degree Type: | Associate of Science Degree |
| Description: <br> Students in Health Information Management (HIM), will receive the guidance of a <br> talented, caring faculty dedicated to producing competent health care professionals. |  |
| Training includes courses in general education, anatomy and physiology, <br> pathophysiology, medical terminology, pharmacology, legal aspects of health care, health <br> care statistics, health information technology, and practical experience in approved health |  |

care facilities.

The HIM program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). Contact information: CAHIIM c/o AHIMA, 233 N. Michigan Avenue, Suite 2150, Chicago, Illinois, 60601-5800, 312-2331131, www.cahiim.org.

After successfully completing the two-year HIM program, graduates are eligible to write the national exam leading to accreditation as a Registered Health Information Technician (RHIT).

Effective Fall 2013, a 2.5 cumulative overall grade point average must be achieved. All grades in the Health Information classes must maintain a 2.5 grade point average as well. All grades in biology courses must be C or better and must be no more than 5 years old at the time of graduation from the program. Students need to have successfully completed Beginning Algebra before taking Health Care Statistics by either placing into Intermediate Algebra on the Academic Skills Assessment or earn a grade of "C" or above in Beginning Algebra.

The Academic Skills Assessment is required before enrolling in math or English courses. If you place into lower level courses than those that are required for the degree, then you must first take those courses before beginning the above curriculum. A student who already has taken college Math or English courses or has taken the assessment tests at another college within the past two years may be able to waive the assessment. If minimum assessment test scores are not met, students will be required to complete ENG 096 and MAT 096 prior to admission and strongly urged to complete MAT 098, beginning algebra prior to admission. MAT 098 must be completed prior to the last semester of the program. Contact the Student Development office for more information.

You must demonstrate acceptable health status and pass drug and background checks in order to participate in directed practicums.

The ACT Test must be taken within the last five years at time of admission to the program. A composite score of 18 or greater must be achieved effective Fall 2013. This requirement may be waived if the student has an Associate or Bachelor's degree.
General Education Requirements:

| COURSE | COURSE NAME | CREDIT <br> NUMBER |
| :--- | :--- | :--- |
|  |  | HOURS |



## FIND OUT MORE!

about SCC

## Department

Health Information Management Program

## Program Contact

## Kathleen Nilson

636-922-8292
knilson@stchas.edu

## Office Coordinator

## Denise Lammers

636-922-8280
dlammers@stchas.edu

## Office Info

## Office Hours

8:00 a.m. -4:30 p.m. Monday-Friday. Hours may vary during summer -
please call to confirm.

## Office Location

Center for Nursing and Allied Health Sciences, Suite 102

## Office Phone Number

636-922-8292

| Communication | ENG 101 <br> ENG 102 or <br> Any LIT <br> SPE 101 | English Composition I <br> English Composition II or <br> Any LIT <br> Oral Communications | 3 | 3 |
| :--- | :--- | :--- | :--- | :--- |
|  | Social Science | PSY101 <br> SOC 101 <br> HIS OR <br> POL | Intro to Psychology <br> Intro to Sociology <br> US History OR <br> American Government** | 3 |
|  | BIO 240/243 <br> BIO 241/244 <br> BIO 265 | Anatomy \& Physiology I* | Anatomy \& Physiology II <br> Sathophysiology | 3 |

## NOTES:

1. *Prerequisite: High School biology or equivalent coursework within the last five years.
2. ${ }^{* *}$ Choose one of the following: HIS 101, HIS 102, HIS 115, POL 101, POL 102.
3. +Students must assess into MAT 121 or have earned a C or higher in MAT 098.

To begin Health Information Management courses, student must be ready to take ENG 101, MAT 098, and BAS/CPT103, if they have not already been taken.

Curriculum subject to revision to meet CAHIIM requirements.
Courses by Semester

| FIRST SEMESTER |  |  | 16 |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIM 110 | Medical Terminology | 3 |  |
| HIM 120/121 | Health Care Data | 3 |  |
| BIO 240/243 | Anatomy \& Physiology I * | 4 |  |
| ENG 101 | English Composition I | 3 |  |
| CPT 103 | Microcomputer Applications | 3 |  |
|  |  |  |  |


| SECOND SEMESTER |  |  | 15 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIM 115 | Pharmacology \& Diaq. Procedures | 3 |  |
| HIM 125/126 | Health Care Technologies | 3 |  |
| HIM 128 | Electronic Health Records | 1 |  |
| HIM 150 | Directed Practicum | 1 |  |
| BIO 241/244 | Anatomy \& Physiology II | 4 |  |
| SPE 101 | Oral Communications | 3 |  |
| SUMMER SEMESTER |  |  | 6 |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 102 or LIT | English Composition II or Literature | 3 |  |
| PSY 101 | Intro to Psychology | 3 |  |
| THIRD SEMESTER |  |  | 15 |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIM 220/221 | Nosology | 3 |  |
| HIM 238 | Healthcare Legal and Ethical Issues | 3 |  |
| HIM 250 | Applied Practicum | 3 |  |
| BIO 265 | Pathophysiology | 3 |  |
| HIS/POL | History or Government ** | 3 |  |
| FOURTH SEMESTER |  |  | 14 |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIM 241 | Health Care Statistics \& Financial Management + | 2 |  |
| HIM 243 | Quality Management and Performance Improvement | 3 |  |
| HIM 260 | Health Information Management Seminar | 2 |  |
| HIM 270/271 | CPT Coding | 2 |  |
| HIM 280 | Healthcare Billing and Reimbursement Issues | 2 |  |
| SOC 101 | Introduction to Sociology | 3 |  |
| Optional - HIM 290/291 | Advanced Coding \& Lab | 3 |  |



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## Degree Info.

The Associate of Science degree is awarded to students completing the requirements of specifically identified programs with a minimum of 64 semester hours. The work parallels the work done in the first two years of a Bachelor of Science degree at four-year institutions. The programs leading to the Associate of Science degree at SCC include Biology, Chemistry, Health Information Technology, Nursing, Pre-Engineering and Pre-Pharmacy.

Home » Academics » College Catalog » Degrees \& Certificates » Nursing A.S.

## Nursing A.S.

| Degree Name: | Nursing A.S. |
| :--- | :--- |
| Degree or Program: | Health |
| Degree Type: | Associate of Science Degree |
| Description: |  |
| The Nursing Program at SCC includes courses in science and liberal arts, as well as |  |
| nursing. Nursing courses consist of lecture and laboratory periods and include carefully |  |
| planned clinical experiences in local health care facilities. Clinicals begin early in the first |  |
| semester and increase in length of time and complexity of skill as the program |  |
| progresses. A well-equipped lab on campus allows students to practice thaw skills. |  |
| Flexible scheduling allows students to choose between day and evening courses and |  |
| clinical experiences. |  |
| The total program must yield a cumulative grade point average of 2.0, and all nursing and |  |
| science courses must have earned a grade of "B" or above. Effective 2013. |  | science courses must have earned a grade of "B" or above. Effective 2013.


| General Education Requirements |  |  |  | 31 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Communication | ENG 101 <br> ENG 102 or <br> Any LIT | English Composition I <br> English Composition II or Any LIT | $\begin{aligned} & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101 or HIS 102 or HIS 115 or POL 101 or POL 102 PSY 101 SOC 101 | US History or American Government <br> Intro to Psychology Intro to Sociology | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Natural <br> Science | CHM 101,103 or CHM 106 BIO 240, 243 BIO 241, 244 BIO 245, 247 | Intro to Chemistry \& Lab Chemistry for Allied Health Anatomy \& Physiology I \& Lab Anatomy \& Physiology II \&Lab Microbiology \& Lab | $\begin{aligned} & 4 \\ & 4 \\ & 4 \\ & 4 \end{aligned}$ |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 41 |
|  | NUR103,113,123 | Introduction to Nursing (Lecture, Lab, Clinical) | 9 |  |
|  | NUR <br> 104,114,124 | Nursing of Adults/Children I (Lecture, Lab, Clinical) | 11 |  |
|  | $\begin{aligned} & \text { NUR } 253, \\ & 263,273 \end{aligned}$ | Nursing of Adults/Children III (Lecture, Lab, Clinical) | 10 |  |
|  | $\begin{aligned} & \text { NUR 254, 264, } \\ & 274 \end{aligned}$ | Nursing of Adults/Children IV (Lecture, Lab, Clinical) | 11 |  |



## FIND OUT MORE!

about SCC

## Department

## Practical Nursing Program

## Related Degrees/ Certificates

- Emergency Medical Science A.A.S.
- Health Information Management A.S.
- Occupational Therapy Assistant A.A.S.
- Practical Nursing C.A.
- Pre-Health Professions Suggested Transfer Program (Medical, Dental, Optometry, Veterinary) Schedule Guide


## Office Coordinator

Denise Lammers
636-922-8280
dlammers@stchas.edu

## Office Info

## Office Hours

8 a.m.-4:30 p.m. Monday-Friday.
Hours may vary during summer -
please call to confirm.
Office Location

## NURSING TRANSFER PROGRAM Associate of Science

This program prepares graduates to take the national licensure exam for registered nurses (RN). Graduates of this program may also be eligible to continue their education at a fouryear institution. SCC has developed transfer agreements with nursing programs at senior institutions.

All required science courses must have been taken within five years from the start of the program and passed with a "B" or better.

The prerequisite for Introduction to Chemistry is a " C " or above in Beginning Algebra (MAT 098) or assessing higher.

The prerequisite for Anatomy \& Physiology I is high school biology or its equivalent within the last five years with a grade of "C" or above. If a biology class was taken more than five years ago, students may take BIO 095 (Pre-A\&P).

For specific admissions requirements that apply to the two-year nursing program at SCC, see Admissions and Records, or call vocational counseling at 636-922-8246.

For more information, call 636-922-8246.
Courses by Semester

| FIRST SEMESTER |  |  | 9 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| NUR 103 | Intro to Nursing | 9 |  |
| NUR 113 | Intro to Nursing Lab |  |  |
| NUR 123 | Intro to Nursing Clinical |  |  |
|  | (Includes 12 hours per week of clinical) |  |  |
| SECOND SEMESTER |  |  | 11 |
| COURSE NUMBER | COURSE NAME | CH |  |
| NUR 104 | Nursing of Adults \& Children I | 11 |  |
| NUR 114 | Nursing of Adults \& Children I Lab |  |  |
| NUR 124 | Nursing of Adults \& Children I Clinical |  |  |
|  | (Includes 12 hours per week of clinical) |  |  |
| THIRD SEMESTER |  |  | 10 |
| COURSE NUMBER | COURSE NAME | CH |  |
| NUR 253 | Nursing of Adults \& Children III | 10 |  |
| NUR 263 | Nursing of Adults \& Children III Lab |  |  |
| NUR 273 | Nursing of Adults \& Children III Clinical |  |  |
|  | (Includes 12 hours per week of clinical) |  |  |
| FOURTH SEMESTER |  |  | 11 |
| COURSE NUMBER | COURSE NAME | CH |  |
| NUR 254 | Nursing of Adults \& Children IV | 11 |  |
| NUR 264 | Nursing of Adults \& Children IV Lab |  |  |
| NUR 274 | Nursing of adults \& Children IV Clinical |  |  |
|  | (Includes 16 hours per week of clinical) |  |  |
| Total Hours Required for Graduation |  |  | 72 |



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## Degree Info.

$\qquad$
The Associate of Science degree is awarded to students completing the requirements of specifically identified programs with a minimum of 64 semester hours. The work parallels the work done in the first two years of a Bachelor of Science degree at four-year institutions. The programs leading to the Associate of Science degree at SCC include Biology, Chemistry, Health Information Technology, Nursing, Pre-Engineering and Pre-Pharmacy.

Home » Academics » College Catalog » Degrees \& Certificates » Pre-Pharmacy A.S.

## Pre-Pharmacy A.S.

| Degree Name: |  | Pre-Pharmacy A.S. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Degree or Program: |  | Pre-Pharmacy |  |  |
| Degree Type: |  | Associate of Science Degree |  |  |
| Description: <br> This Associate of Science in Pre-Pharmacy degree program prepares students to transfer to a pharmacy school. Because requirements vary at each pharmacy school, students should check with their advisor and the institution they plan to transfer to ensure they are enrolled in the correct courses. |  |  |  |  |
| General Education Requirements |  |  |  | 39-42 |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 180 | Calculus and Analytic Geometry | 5 |  |
| Communication | ENG 101 <br> ENG 102 <br> SPE 101 | English Composition I <br> English Composition II <br> Oral Communications | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Social Science | HIS 101 or 102 or <br> 115 or 270 or POL 101 or 102 | US History or Government | 3 |  |
| Natural Science | $\begin{aligned} & \text { CHM } 115 \\ & \text { BIO } 150 \end{aligned}$ | General Chemistry I General Biology I | $\begin{aligned} & 5 \\ & 5 \end{aligned}$ |  |
| Elective** | 4 of the listed electives** | See course descriptions in catalog** | 12-15 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 26-27 |
| Biology | $\begin{aligned} & \text { BIO } 151 \\ & \text { BIO 240/243 } \end{aligned}$ | General Biology II <br> Anatomy \& Physiology I and lab | $\begin{aligned} & 5 \\ & 4 \end{aligned}$ |  |
| Chemistry | CHM 116 <br> CHM 240 <br> CHM 241 <br> CHM 243 | General Chemistry II Organic Chemistry I Organic Chemistry II Organic Chemistry lab | $\begin{aligned} & 5 \\ & 3 \\ & 3 \\ & 2 \end{aligned}$ |  |
| Physics | PHY 150/153 | General Physics I with lab | 4 |  |
| College Requirement: |  |  |  |  |
| For first time college students | COL 101 | College Success Seminar | 1 |  |
| ELECTIVES** |  |  |  | 30 |
|  | BIO 241/244 | Anatomy \& Physiology II with lab | 4 |  |



## FIND OUT MORE!

about SCC

## Department

## Science Department

## Office Coordinator

Vicki Remington
636-922-8351
vremington@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday

## Office Location

Administration Building, Room 2442

## Office Phone Number

636-922-8351


## 

Certificates of Achievement - 2014-

## 15

Graduation Requirements

## Business Administration

- Business Administration C.A.


## Business Technology

- Computer Applications C.A.
- Customer Service C.A.
- Desktop Publishing C.A.


## Child Care \& Early Education

- Child Care \& Early Education C.A.


## Computer-Aided Drafting

- Computer-Aided Drafting (CAD) C.A.


## Computer Science

- Data Management C.A.
- Multimedia C.A.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.

Criminal Justice

- Law Enforcement C.A.

Customer Service

- Customer Service C.A.

Desktop Publishing

- Desktop Publishing C.A.


## Global Culture

- Global Studies C.A.

Multimedia

- Multimedia C.A.


## Networking

- Networking C.A.


## Practical Nursing

- Practical Nursing C.A.


## Programming

- Programming Languages C.A.



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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Business

## Administration C.A

## Business Administration C.A.



## What Is Business Administration C.A.?

This certificate program provides students with entry-level knowledge of business administration. The Business
Administration Certificate of Achievement can be completed in one year. Business Administration students choose an area of focus - accounting, banking and finance, management and marketing.

## Occupation Overview

Business Administration graduates may enter fields including general business, banking and finance, management and marketing.

## Learn more from SCC Career Services

## Business Administration Careers

Depending on job experience and additional education, graduates with a business administration Certificate of Achievement (C.A.) are employed in a broad range of careers including, but not limited to: accounting clerks, accountants, business service specialists, administrative support, construction managers, curriculum and assessment directors, estimators, event/convention planners, financial

## Occupational Outlook

Because of the diversity of the business careers, there is a varied job outlook. For most jobs, the outlook for growth is as fast as the average.

Students with a combination of work experience and computer skills should have the best job prospects.


## Salary Outlook

In the state of Missouri, business office and administrative support occupations earn a mean average of $\$ 32,900$ per year.
Source: Bureau of Labor Statistics
According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

Apply
. now!

FIND OUT MORE!
about SCC
Success Story

## Erik Vasquez

"SCC has made the transition from high school to college a lot easier. I have a great opportunity to do something successful with my life."

Full Story

## Department

Business Administration - Accounting

## Related Degrees/

## Certificates

- Accounting C.S.
- Banking/Finance C.S.
- Business Administration A.A.S.
- Business Transfer Program Suggested Schedule Guide
- Management C.S.
- Marketing C.S.


## Program Contact

Anna Boulware
636-922-8328
aboulware@stchas.edu
worker, greenhouse and nursery managers, import/export customs brokers, industrial-organization psychologist, instructional coordinator, loan officer, market research analyst, medical records administrator, public relations specialist, purchasing agent, sports events planner, staff accountants and treasurer.

| Degree Name: |  | Business Administration C.A. |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Degree or Program: |  | Business Administration |  |  |
| Degree Type: |  | Certificate of Achievement |  |  |
| Description: |  |  |  |  |
| General Education Requirements <br> Must Include: CPT 103, CPT 105, MAT 121 |  |  |  | 13 |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 098 | Beginning Algebra or higher | 4 |  |
| Communication | ENG 101 <br> ENG 102 <br> ENG 115 <br> ENG 125 <br> SPE 101 | English Composition I English Composition II <br> Technical Writing <br> Business Writing <br> Oral Communication | 3 |  |
| Social Science | $\begin{aligned} & \text { ECO } 100 \text { or } \\ & \text { ECO } 110^{*} \end{aligned}$ | Survey Economics or Principles of Macroeconomics | 3 |  |
| Elective | CPT/BTC 103 or CPT 115 | Microcomputer Applications Introduction to Data Processing | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 6-7 |
|  | ACT 101 or ACT 110** | Applied Accounting <br> Financial Accounting I | $\begin{aligned} & 3 \\ & 4 \end{aligned}$ |  |
|  | BUS 101 | Introduction to Business | 3 |  |
| ELECTIVE COURSES |  |  |  | 12 |
| Management Option | BUS 201 <br> BUS 206 <br> BUS 210 | Principles of Management Human Resource Management Organizational Behavior | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
| Marketing Option | BUS 230 <br> BUS 232 <br> BUS 236 | Principles of Marketing Advertising/Sales Promotion Consumer Behavior | 3 3 3 |  |
| Accounting Option | ACT 115 <br> ACT 130 <br> ACT 240 | Computerized Accounting Managerial Accounting Individual Income Tax Accounting | 3 3 3 |  |
| Finance Option | $\begin{aligned} & \text { BUS } 220 \\ & \text { ECO } 120 \\ & \text { ECO } 220 \end{aligned}$ | Business Finance <br> Principles of Microeconomics <br> Money and Banking | $\begin{aligned} & 3 \\ & 3 \\ & 3 \end{aligned}$ |  |
|  | Any ACT <br> Any BUS <br> Any ECO <br> MAT 175 <br> GEO 120 |  | 3 |  |
| TOTAL REQUIRED HOURS |  |  |  | 31-32 |
| * Required for Finance option |  |  |  |  |

Ginny Tiller
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gtiller@stchas.edu

## Office Info

## Office Hours

Monday-Friday
7:30 a.m.-4 p.m.

## Office Location

Technology Building, Room 205
Office Phone Number


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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Computer Applications C.A.

## Computer Applications C.A.



## What Is BTC - Computer Applications?

This certificate program provides the graduate with entry-level skills using a variety of current software applications. Students will learn to provide excellent support services and will acquire a broad range of skills in preparation for an entrylevel position. Instructors are committed to assisting students by keeping all course content, equipment and teaching methods current. This ensures better applied learning so students are successful in Business Technology career fields and can be placed in high-paying positions that meet their needs. Courses are offered online, on campus and in a hybrid format.

Students may earn this certificate before acquiring employment, and then when employed, apply all credits toward the twoyear Associate of Applied Science degree in Business Technology.

## Learn more from SCC Career Services

## BTC Careers

A broad range of careers are possible and include, but are not limited to: A broad range of careers are possible and include, but are not limited to: administrative assistant, assistant director, buyer, developmental coordinator, executive secretary, hotel clerk, human resources assistant, legal secretary, medical secretary, municipal clerk, office manager, program assistant, receptionist, secretary,


FIND OUT MORE!
about SCC
Success Story

## Theresa Boyd

"I've learned so much at Environmental Management Corporation; it's the best job l've ever had. And I'm here thanks to SCC."

Full Story
Brenda Kearns

"I knew I had discovered both the program and the direction in which I wanted to go."

Full Story

## Department

Business Technology (BTC)

## Related Degrees/ Certificates

## - Business Technology A.A.S.

- Customer Service C.A.
- Desktop Publishing C.A.
customer service representative, front desk clerk, receptionist, telephone operator, warranty administrator, clerical assistant and desktop publisher.

| Degree Name: | Computer Applications C.A. |
| :--- | :--- |
| Degree or Program: | Business Technology |
| Degree Type: | Certificate of Achievement |
| Description: |  |
| This certificate program provides the graduate with entry-level skills in computer |  |
| applications. Responsibilities may include tasks related to word process, spreadsheets, |  |
| presentations, database management, and desktop publishing. Current computer and |  |
| technology skills are applied in all areas of Microsoft Office, desktop publishing, and use |  |
| of the Internet. |  |
| Business Technology program representatives assist students with job placement efforts <br> throughout the program. The courses for this certificate may be applied to the Associate <br> of Applied Science degree in the same area. |  | of Applied Science degree in the same area.


| General Education Requirements |  |  |  | 12 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE <br> NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 105 | Applied Math | 3 |  |
| Communication | ENG 101 or ENG 102 or SPE 101 | English Composition I or English Composition II or Oral Communication | 3 |  |
| Social Science | HIS 101 or HIS 102 or HIS 115 or HIS 270 or POL 101 or POL 102 | US History to 1877 or US History since 1877 or US History since 1945 or History of Missouri or American Government or State and Local Government | 3 |  |
| Elective | BTC/CPT 103 | Microcomputer Applications | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 25 |
|  | BTC 105 | Proofreading and Editing Business Documents | 3 |  |
|  | BTC 136 | Business Communication with Stakeholders | 2 |  |
|  | BTC 138 | Project Management | 1 |  |
|  | BTC 150 | Managing Information - Outlook | 1 |  |
|  | BTC 160 | Word Processing - Word | 2 |  |
|  | BTC 165 | Presentations - Powerpoint | 2 |  |
|  | BTC 170 | Spreadsheet Applications - Excel | 2 |  |
|  | BTC 175 | Database Applications - Access | 2 |  |
|  | BTC 190 | Planning and Design Concepts (Microsoft Publisher) | 2 |  |
|  | BTC 245 | Administrative Procedures | 3 |  |
|  | BTC 247 | Administrative Supervision | 3 |  |
|  | BTC 290 | Publishing Projects | 2 |  |
| TOTAL REQUIRED HOURS |  |  |  | 37 |
| Gainful Employment Disclosure Information |  |  |  |  |

Program Contact

Nancy Graviett
636-922-8390
ngraviett@stchas.edu

## Office Coordinator

Ginny Tiller
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gtiller@stchas.edu

## Office Info

## Office Hours

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Monday-Friday
Office Location
Technology Building, Room 105
Office Phone Number
636-922-8334


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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Customer Service C.A.

## Customer Service C.A.



## What Is BTC - Customer Service

This program provides the students with skills necessary to handle customers professionally, effectively and successfully. You will become comfortable with electronic communication, improve time management skills, review professional telephone skills, develop project management skills and brush up on computer skills. The courses for this certificate may be applied to the Associate of Applied Science degree.

Instructors are committed to assisting students by keeping all course content, equipment and teaching methods current. This ensures better applied learning so students are successful in Business Technology career fields and can be placed in high-paying positions. Courses are offered online, on-campus and in a hybrid format.

Occupational Outlook
Jobs in the customer service arena are growing at an average rate, about 13 percent.

Nearly all students who were seeking employment in a related area found jobs within 180 days of graduation.


Learn more from SCC Career Services

## BTC Careers

Customer service is part of most jobs today, and using those skills well can lead to advancement. Some people choose to focus on customers as a customer service representative or customer service specialist.

## Salary Outlook

Salaries vary greatly in different occupations within this field. The median 2012 salaries were between $\$ 27,000$ and 40,000 annually for those working in the field.

Sources: Occupational Outlook Handbook

| Degree Name: | Customer Service C.A. |
| :--- | :--- |
| Degree or Program: | Customer Service |
| Degree Type: | Certificate of Achievement |


about SCC
Success Story

## Theresa Boyd

"I've learned so much at Environmental Management Corporation; it's the best job I've ever had. And I'm here thanks to SCC."

Full Story
Brenda Kearns

"I knew I had discovered both the program and the direction in which I wanted to go."

Full Story

## Department

Business Technology (BTC)

## Program Contact

## Nancy Graviett

636-922-8390
ngraviett@stchas.edu

## Office Coordinator

| Description: <br> This program provides the students with skills necessary to handle customers professionally, effectively, and successfully. You will become comfortable with business communication--written and verbal; improve time management skills; from professional work standards and image; review professional telephone skills; and brush up on keyboarding and computer skills. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| General Education Requirements |  |  |  | 12 |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 105 | Applied Math | 3 |  |
| Communication | ENG 101 or ENG 102 or SPE 101 | English Composition I or English Composition II or Oral Communications | 3 |  |
| Social Science | HIS 101, or 102 , or 115 , or 270 or POL 101 or 102 | U.S. History or American Government | 3 |  |
| Elective | BTC/CPT 103 | Microcomputer Applications | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 23 |
|  | BTC 105 | Proofreading and Editing Business Documents | 3 |  |
|  | BTC 130 | Customer Service Excellence | 1 |  |
|  | BTC 131 | Telephone Communication Skills | 1 |  |
|  | BTC 132 | Time Management | 1 |  |
|  | BTC 135 | Your Professional Image | 1 |  |
|  | BTC 136 | Electronic Communication with Stakeholders | 2 |  |
|  | BTC 137 | Interpersonal Skills | 1 |  |
|  | BTC 138 | Project Management | 1 |  |
|  | BTC 150 | Managing Information Outlook | 1 |  |
|  | BTC 160 | Word Processing - Word | 2 |  |
|  | BTC 165 | Presentations - Powerpoint | 2 |  |
|  | BTC 170 | Spreadsheet Applications Excel | 2 |  |
|  | BTC 175 | Database Applications Access | 2 |  |
|  | BTC 245 | Administrative Procedures | 3 |  |
| TOTAL REQUIRED HOURS |  |  |  | 35 |
| For more information, call 636-922-8241. |  |  |  |  |
| Gainful Employm | nent Disclosure Information |  |  |  |

Ginny Tiller
636-922-8334
gtiller@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Office Location
Technology Building, Room 105

## Office Phone Number

636-922-8334


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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Desktop Publishing C.A.

Desktop Publishing C.A.


## What Is BTC - Desktop Publishing?

This certificate program provides the graduate with entry-level skills as a desktop publisher capable of producing basic publishing documents. Training is provided in many computer software skill areas, page layout, design and management techniques for use in small businesses and home publishing businesses. Current computer and technology skills are applied in all program areas of Microsoft Office, Adobe InDesign, Adobe Photoshop and Adobe Illustrator and the Internet.

Instructors are committed to assisting students by keeping all course content, equipment and teaching methods current. This ensures better applied learning so students are successful in Business Technology career fields and can be placed in high-paying positions that meet their needs. Courses are offered online, on campus and in a hybrid format.

The courses for this certificate may be applied to the Associate of Applied Science degree in Business Technology.

## Learn more from SCC Career Services

## BTC Careers

Desktop publishers use software to design page layouts for print or online documents like newspapers, books, brochures and other items. They create the text, graphics and other materials they will need and

## Salary Outlook

The median salary with experience is just over $\$ 37,000$. Salaries vary depending on the type of industry and experience.

Sources: Occupational Outlook Handbook

about SCC

## Success Story

## Theresa Boyd

"I've learned so much at Environmental Management Corporation; it's the best job l've ever had. And I'm here thanks to SCC."

Full Story
Brenda Kearns

"I knew I had discovered both the program and the direction in which I wanted to go."

Full Story

## Department

Business Technology (BTC)

## Related Degrees/ Certificates

[^4]format them into a finished product.
Program Contact

| Degree Name: | Desktop Publishing C.A. |
| :--- | :--- |
| Degree or Program: | Business Technology |
| Degree Type: | Certificate of Achievement |
| Description: <br> This certificate program provides the graduate with entry-level skills as desktop publisher, |  | clerical assistant, and capable of producing basic publishing documents. Training is provided in many computer software skill areas, page layout, design, and management techniques for use in small businesses and home publishing businesses. Current computer and technology skills are applied in all program areas of Microsoft Office, Adobe InDesign, Adobe PageMaker, QuarkXPress, Adobe Photoshop and Illustrator, and the Internet.

Work with the Business Technology program representatives for scheduling and job placement assistance at any time during your course work. The courses for this certificate may be applied to the Associate of Applied Science Degree in Business Administrative Systems.

| General Education Requirements |  |  | 12 |
| :--- | :--- | :--- | :--- | :--- |
|  | COURSE NUMBER |  |  |$\quad$ COURSE NAME | CREDIT |
| :--- |
| HOURS |



Gainful Employment Disclosure Information

Nancy Graviett
636-922-8390
ngraviett@stchas.edu

## Office Coordinator

Ginny Tiller
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gtiller@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Office Location
Technology Building, Room 105
Office Phone Number
636-922-8334


## Academics

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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates > Child Care \& Early Education C.A

## Child Care \& Early Education C.A.

| Degree Name: | Child Care \& Early Education C.A. |
| :--- | :--- |
| Degree or Program: | Child Care \& Early Education |
| Degree Type: | Certificate of Achievement |
| Description: <br> This certificate prepares students for entry-level or assistant positions in early childhood <br> programs. |  |

Students who have had experience in early childhood programs may also select the courses that are necessary to meet state licensing requirements for administrative positions in early childhood programs.

| General Education Requirements: |  |  |  | 12-13 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE <br> NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 105 or MAT 108 or MAT 121 or higher | Applied Math or Understanding K-8 Math or Intermediate Algebra or higher | 3-4 |  |
| Communication | ENG 101 | English Composition I | 3 |  |
| Social Science | HIS 101 or HIS 102 or HIS 115 or POL 101 or POL 102 | US History to 1877 or US History since 1877 or US History since 1945 or American Government or State \& Local Government | 3 |  |
| Natural <br> Science |  | Any BIO, CHM, or PHY | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 18 |
|  | CDC 101 | Introduction to Early Childhood Education | 3 |  |
|  | CDC 104 | Principles of Early Childhood Curriculum | 3 |  |
|  | CDC 105 | Early Childhood Practicum I | 3 |  |
|  | CDC 107 | Introduction to Young Children with Special Needs | 3 |  |
|  | CDC 109 | Early Childhood Practicum I Seminar | 1 |  |
|  | CDC 112 | Child Growth \& Development I:Prenatal through Early Childhood | 3 |  |
|  | CDC 208 | Nutrition, Health, \& Safety of Children | 3 |  |
| Elective Courses in Child Care (choose two) |  |  |  | 6 |
|  | CDC 102 | Creative Activities and Play for Young Children | 3 |  |
|  | CDC 103 | Literacy \& Literature for Young Children | 3 |  |



FIND OUT MORE!
about SCC

## Department

Child Care and Early Education

## Related Degrees/ Certificates

## - Child Care \& Early Education

 A.A.S.
## Program Contact

Kathy Drews
636-922-8424
kdrews@stchas.edu

## Office Coordinator

Phyllis Marchand
636-922-8496
phyllis_marchand@stchas.edu

## Office Info

## Office Hours

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Monday-Friday
Office Location
Social Sciences Building, Room 1104
Office Phone Number



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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Computer-Aided Drafting (CAD) C.A.

## Computer-Aided Drafting (CAD) C.A.



## What Is CAD

This certificate provides the student with knowledge of computer-aided drafting (CAD) while requiring a shorter time commitment than the Associate of Applied Science degree.

This certificate provides the student with skills comprehensive enough for entry-level employment in as little as one year. The student is afforded some latitude in upperlevel course choices.

## Occupation Overview

These technicians (i.e. drafting technicians or "drafters") operate computer-aided design systems to produce final specifications and drawings for new designs. A drafter may work as a team member with engineers, analysts, architects, other drafters and/or designers assigned to a specific design. Drafters use special computer software for producing, communicating and revising detailed specifications and drawings.

## Learn more from SCC Career Services

## CAD Careers

SCC graduates are employed in a broad range of careers, including, but not limited to: Architectural drafter, automotive design drafter, CAD drafter, civil drafter,
construction design, designer, detail drafter, detailer, die designer, die-drawing checker, drawings checker, electrical drafter, estimator, government record keeper,

## Occupational Outlook

Employment of computer-aided design technicians is expected to have varied growth through 2018 depending on the industry. Local/regional placement and outlook has been realizing better than average as compared to the national outlook.


## Salary Outlook

CAD graduates typically average between \$14-\$22/hour. Future promotion and advancement may be more limited with a Certificate of Achievement as compared to an Associate of Applied Science degree.

Sources: FOCUS Online Career and Education Planning Systems

about SCC

## Success Story

## Malee Alway

David Niermann said, "Her dedication, high work ethic and thoroughness greatly exceed the typical student performance in our program."

## Full Story

## Department

## Computer-Aided Drafting (CAD)

## Related Degrees/

 Certificates- Computer-Aided Drafting (CAD) A.A.S.

Program Contact

## David Niermann

636-922-8561
dniermann@stchas.edu

## Office Coordinator

## Ginny Tiller

636-922-8334
gtiller@stchas.edu
factory layout drafter, HVAC drafter,
industrial drafter, manufacturing technician,
product design drafter, SolidWorks
designer, structural drafter, technical
illustrator, tooling designer.

| Degree Name: | Computer-Aided Drafting (CAD) C.A. |  |  |
| :--- | :--- | :--- | :--- |
| Degree or Program: | Computer-Aided Drafting |  |  |
| Degree Type: | Certificate of Achievement |  |  |
| Description: <br> This certificate provides the student with skills comprehensive enough for entry-level <br> employment in as little as one year. The student is afforded some latitude in upper-level <br> course choices. | COURSE NAME |  |  |
| General Education Requirements | COURSE | NUMBER | Beginning Algebra or Higher*** |


| CORE COURSE REQUIREMENTS MUST INCLUDE: | 9 |
| :--- | :--- |


|  | CDM 103 | Introduction to CAD Systems | 2 |
| :--- | :--- | :--- | :--- |
|  | CDM 104 | CAD Systems II | 3 |
|  | CDM 221 | Solid Modeling I | 3 |
|  | CDM 298 | CAD Capstone | 1 |


| ELECTIVE COURSES (Choose Four) |  |  |  |
| :---: | :---: | :---: | :---: |
|  | CDM 120 | Descriptive Geometry | 2 |
|  | CDM 205 | Architectural Drafting I | 3 |
|  | CDM 206 | Architectural Drafting II | 3 |
|  | CDM 207 | Revit Architecture I | 3 |
|  | CDM 208 | Revit Architecture II | 3 |
|  | CDM 209 | Construction Materials | 3 |
|  | CDM 210 | HVAC Drafting | 3 |
|  | CDM 211 | Structural Drafting | 3 |
|  | CDM 212 | Electrical/Electronic Drafting | 3 |
|  | CDM 222 | Solid Modeling II | 3 |
|  | CDM 223 | Geometric Dimensioning and Tolerance | 3 |
|  | CDM 235 | Manufacturing Processes | 3 |
|  | CDM 251 | Introduction to Piping Drafting | 3 |
|  | CDM 255 | Civil Drafting | 3 |
|  | CDM 265 | Sustainable Design | 3 |
|  | CPM 220 | 3D Animation | 3 |
|  | GEO 120 | Introduction to GIS | 3 |

TOTAL REQUIRED HOURS
32-34
** Choose from one History or Political Science course HIS 101, 102, 115, 270; POL 101 or 102.
*** The Academic Skills Assessment is required before enrolling in Math or English course. If a student places into lower level courses than are required for his/her degree, then the student needs to first enroll in lower level courses before enrolling in the courses needed for graduation.

## Office Hours

7:30 a.m.-4 p.m. Monday-Friday

## Office Location

Technology Building, Room 105
Office Phone Number
636-922-8334

The student earning a Certificate needs to be aware that the courses taken are specifically designed to help in obtaining employment, are not designed for transfer to a four-year institution. If the student wants to transfer courses, then the Associate of Arts Degree should be pursued.

For more information, please contact department chair David Niermann at 636-922-8561 or dniermann@stchas.edu

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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Data Management C.A.

## Data Management C.A.

## What Is Computer Database Management?

Computer database managers write and code logical and physical database descriptions and specify identifiers of database to management system or direct others in coding descriptions.

## Occupation Overview

Database managers specify users and user access levels for databases, and train users on databases and answer user questions. They approve, schedule, plan and supervise the installation and testing of new products and improvements. They develop standards and guidelines to guide the use and acquisition of software and to protect vulnerable information. They may work on project teams to coordinate database development and determine project scope and limitations.

Learn more from SCC Career Services

## Database Management Careers

SCC graduates are employed in a broad range of careers including, but not limited to: database administrator, database analyst, geographical information systems (GIS) technician, data warehouse specialist, Web database developer, database management specialist, database inventory manager, technical writer and information specialist.

## Occupational Outlook

Employment of database administrators is projected to grow 15 percent from 2012 to 2022, faster than the average for all occupations. Growth in this occupation will be driven by the increased data needs of companies across the economy.


## Salary Outlook

The median hourly wage for data management professionals in Missouri is $\$ 37.09$. Established data management professionals generally earn between $\$ 53,470$ and $\$ 93,260$ per year. Exceptional performers can earn in excess of \$114,200.

Source: FOCUS Online Career and Education Planning Systems.

| Degree Name: | Data Management C.A. |
| :--- | :--- |
| Degree or Program: | Computer Science |
| Degree Type: | Certificate of Achievement |
| Description: <br> Databases are used to store, manipulate and retrieve data in nearly every type of <br> organization including business, healthcare, education, government and libraries. <br> Database technology is routinely used by people on personal computers, by workgroups <br> accessing databases on network servers and by all employees using enterprise-wide <br> distributed applications. Managers in all industries seek to use knowledge derived from <br> databases for competitive advantage. |  |



FIND OUT MORE!

## about SCC

## Department

Computer Science - Database Management

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Cyber Security A.A.S.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.


## Program Contact

Rex McKanry
636-922-8289
rmckanry@stchas.edu
Office Coordinator

| General Education Requirements | 13 |
| :--- | :--- |


|  | COURSE <br> NUMBER | COURSE NAME | CREDIT <br> HOURS |
| :--- | :--- | :--- | :--- |
| Mathematics | MAT 098 | Beginning Algebra | 4 |
| Communication | ENG 101 | English Composition I | 3 |
| Social <br> Sciences | HIS 101 <br> HIS 102 <br> HIS 115 <br> HIS 270 <br> POL 101 <br> POL 102 | US History to 1877 <br> US History Since 1877 <br> US History Since 1945 <br> History of Missouri <br> American Government <br> State \& Local Government | 3 |
| Elective | CPT 115 | Introduction to Data Processing | 3 |



## Courses by Semester

| FIRST SEMESTER |  |  |  |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 098 | Beginning Algebra | 3 |  |
| CPT 115 | introduction to Data Processing | 3 |  |
|  | Choose two of the core requirements * | 6 |  |
| SECOND SEMESTER |  | CH | 15 |
| COURSE NUMBER | COURSE NAME | 3 |  |
| HIS or POL | Social Sciences | 12 |  |
|  | Choose four of the core requirements * |  |  |

* Core requirements include CPT 103, 106, 121, 135, 201, 240, 250, 260 and CPM 190

Gainful Employment Disclosure Information

Ginny Tiller
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## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday

## Office Location

Technology Building, Room 105
Office Phone Number
636-922-8334


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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Multimedia C.A.

## Multimedia C.A.



## What Is Multimedia?

Multimedia has changed the way America works! You will learn the fundamentals of multimedia authoring and design using the latest programs on the market leading to entry-level positions.

## Occupation Overview

Multimedia developers produce and develop CD-ROMs, online training, kiosks and media development using video, audio, programming, animations and graphics. When seeking an entry-level position in this field, it is important to have a "portfolio" containing samples of your best work.

## Learn more from SCC Career Services

## Web and Multimedia <br> Careers

SCC graduates are employed in a broad range of careers, including, but not limited to: multimedia developer, webmaster, Web programmer, game developer and creative director.

## Occupational Outlook

Employment of multimedia and Web professionals is projected to grow 20 percent through 2022, faster than the average for all occupations. Demand will be driven by the growing popularity of mobile devices and e-commerce.

Local/regional placement and outlook have been higher than average compared to the national outlook.


## FIND OUT MORE!

about SCC
Success Story

## Chris Ruth

"They had the courses I was looking for. And the price was right; compared to other colleges and universities, SCC was very competitive."

## Full Story

## Department

Computer Science - Multimedia and Web Design

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Cyber Security A.A.S.
- Data Management C.A.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.

Web Design C.A.

## Courses by Semester

| FIRST SEMESTER |  |  |  |
| :--- | :--- | :--- | :--- |
| COURSE NUMBER | COURSE NAME | CH |  |
| ENG 101 | English Composition I | 3 |  |
| MAT 098 | Beginning Algebra | 3 |  |
| CPT 115 | Introduction to Data Processing | 3 |  |
|  | Choose two of the core requirements * | 6 |  |
| SECOND SEMESTER |  | CH |  |
| COURSE NUMBER | COURSE NAME | 3 |  |
| HIS or POL | Social Sciences | 6 |  |
|  | Choose two of the core requirements * | 3 |  |
| CPT 106 | PC Operating Systems | 3 |  |
| CPM 120 | Windows Multimedia |  |  |

*Core requirements include CPM 170, 190, 210, 220, 250, 260, 270.

Gainful Employment Disclosure Information

- Web Development C.S.

Program Contact


Sources: FOCUS Online Career and Education Planning Systems.

```
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```


## Office Coordinator

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636-922-8334

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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Networking C.A.

## Networking C.A.

## What Is Computer Networking?

Computer networking is an engineering discipline that aims to study and analyze communication among various computing devices or computer systems that are linked, or networked together to exchange information and share resources.

## Occupation Overview

Computer network professionals help manage the flow of information between two or more linked computers. They install and test computer and communications media, hardware and software and assist network administrators in the operations of computer hardware, software and communication devices that link computers and remote terminals.

They install, test and debug new network software and hardware. They write documentation and instructions for proper use of the network and help users who need guidance or run into problems.

They help network managers in the evaluation of new applications for use on the network and help install and test software that protects the security of information stored in a network system. They evaluate and install software to guard against computer viruses.

## Learn more from SCC Career Services

## Computer Networking Careers

SCC graduates are employed in a broad range of careers including, but not limited to: computer network engineer, network security specialist, network security administrator, network security engineer, information systems security manager, systems security administrator, data security analyst and chief security officer.

## Occupational Outlook

Employment of computer network architects is projected to grow 15 percent through 2022, faster than the average for all occupations. Demand for computer network professionals will increase as firms continue to expand wireless and mobile networks.


FIND OUT MORE!
about SCC
Department

Computer Science - Networking

## Related Degrees/ Certificates

- Networking A.A.S.

Program Contact

Michael Fuszner
636-922-8322
mfuszner@stchas.edu
Office Coordinator

Ginny Tiller
636-922-8334
gtiller@stchas.edu

## Office Info

## Office Location

Technology Building, Room 105
Office Phone Number
636-922-8322

## Salary Outlook

In Missouri, the median hourly wage is $\$ 46.16$ for computer network architects and $\$ 30.93$ for computer network support specialists. Established computer network professionals earn between $\$ 55,900$ and $\$ 94,320$ per year.

Sources: FOCUS Online Career and Education Planning Systems.

Apply now!

## Degree Name:

Degree or Program:

| Degree Type: |  | Certificate of Achievement |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Description: <br> Computer networking programs at St. Charles Community College provide hands-on, skills-based training in state-of-the-art classroom labs. They help to prepare you for the corporate workplace and industry certifications. Learn how to configure, manage, troubleshoot and secure network workstations, servers, routers, switches and networks. |  |  |  |  |
| General Education Requirements <br> Must Include: CPT 103, CPT 105, MAT 121 |  |  |  | 13 |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Mathematics | MAT 098 or higher | Beginning Algebra | 4 |  |
| Communication | ENG 101 or ENG 102 or ENG 115 or ENG 125 or SPE 101 | English Composition I <br> English Composition II <br> Technical Writing <br> Business Writing <br> Oral Communication | 3 |  |
| Social <br> Sciences | Pick one: <br> HIS 101 <br> HIS 102 <br> HIS 115 <br> HIS 270 <br> POL 101 <br> POL 102 | US History to 1877 US History Since 1877 US History Since 1945 History of Missouri American Government State \& Local Government | 3 |  |
| Elective | Any ANT <br> Any ART <br> BAS 103 <br> Any BIO <br> CPT 103, 115 <br> Any CHM <br> Any ECO <br> EDU 220 <br> Any ENG <br> Any Foreign <br> Language <br> Any GEO <br> Any HIS <br> Any LIT <br> Any MAT <br> Any MUS <br> Any PHE <br> Any PHL <br> Any PHY <br> Any POL <br> Any PSY <br> Any SOC <br> Any SPE <br> Any THE |  | 3 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 19 |
|  | CPC 107 | A+ (Computer Repair \& Maintenance | 5 |  |
|  | CPC 125 | Windows Desktop Operating Systems | 3 |  |
|  | CPC 170 | CCNA1 | 5 |  |
|  | CPC 180 | Introduction to UNIX/Linux | 3 |  |
|  | CPC 160 | Security Fundamentals | 3 |  |
| ELECTIVE COURSES** |  |  |  | 0 |
| None |  |  |  |  |
| TOTAL REQUIRED HOURS |  |  |  | 32 |

Courses by Semester

| FIRST SEMESTER |  |  | 15 |
| :---: | :---: | :---: | :---: |
| COURSE NUMBER | COURSE NAME | CH |  |
| Pick One: <br> ENG 101 <br> ENG 102 <br> ENG 115 <br> ENG 125 <br> SPE 101 | English Composition 1 <br> English Composition 1 <br> Technical Writing <br> Business Writing <br> Oral Communication | 3 |  |
| MAT 098 or higher | Beginning Algebra | 4 |  |
| CPC 107 | A+ (computer Repait \& Maintenance) | 5 |  |
| CPC 125 | Windows Desktop Operating Systems | 3 |  |
| SECOND SEMESTER |  |  | 17 |
| COURSE NUMBER | COURSE NAME | CH |  |
| Pick One: <br> HIS 101 <br> HIS 102 <br> HIS 115 <br> HIS 270 <br> POL 101 <br> POL 101 | US History to 1877 US History Since 1877 US History Since 1945 History of Missouri American Government State \& Local Government | 3 |  |
| Elective | Any ANT <br> Any ART <br> BAS 103 <br> Any BIO <br> CPT 103, 115 <br> Any CHM <br> Any ECO <br> EDU 220 <br> Any ENG <br> Any Foreign Language <br> Any GEO <br> Any HIS <br> Any LIT <br> Any MAT <br> Any MUS <br> Any PHE <br> Any PHL <br> Any PHY <br> Any POL <br> Any PSY <br> Any SOC <br> Any SPE <br> Any THE | 3 |  |
| CPC 170 | CCNA1 | 5 |  |
| CPC 160 | Security Fundamentals | 3 |  |
| CPC 180 | Introduction to UNIX/Linux | 3 |  |

Gainful Employment Disclosure Information


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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates > Programming

## Languages C.A.

## Programming Languages C.A.

## What Is Computer Programming?

Computer programmers determine the types of information and data needed to produce the computer results expected by an organization's decision-makers and decide how to analyze and process information and summarize results in printed reports or graphic displays. They determine what programming language to use to write programs that satisfy an organization's needs.

## Occupation Overview

Computer programmers write the detailed instructions (programs and software) that list in a logical order the steps the computer must follow to organize data to solve a problem. Programmers determine how to capture and enter information needed and summarize computer results in reports and displays.

Many programmers obtain a two-year associate degree for an entry-level position. However, the trend for many positions has been the requirement of a bachelor's degree. If a student wants to transfer courses, then the Associate of Applied Science degree should be pursued and the Computer Science Transfer Program Schedule Guide followed.

## Learn more from SCC Career Services

## Computer Programming Careers

SCC graduates are employed in a broad range of careers including, but not limited to: programmer/analyst, application programmer/developer, programmer systems analyst, network or system software engineer, project manager and technical writer.
occupations. Programming

Related Degrees/ Certificates

- Computer Programming A.A.S.


## Program Contact

Rex McKanry
636-922-8289
rmckanry@stchas.edu

## Office Coordinator

## Salary Outlook

The average starting salary for programmers is $\$ 32,500$ with an associate's degree and about \$50,000 per year with a bachelor's degree. The hourly mean wage for computer programmers in Missouri is $\$ 34.48$. Established computer programmers generally earn between \$53,620 and \$91,000 per year. Exceptional performers can earn in excess of \$113,380.

Sources: FOCUS Online Career and

## Occupational Outlook

Employment of computer programmers is projected to grow 8 percent through 2022, about as fast as the average for all


## FIND OUT MORE!

## about SCC

## Department

Computer Science - Computer
Apply now!

## $\qquad$



Ginny Tiller
636-922-8334
gtiller@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m. Monday-Friday

Office Location
Technology Building, Room 105
Office Phone Number


| CPT Elective | CPT Elective Part 1 | 3 |  |
| :--- | :--- | :--- | :--- |
| SPRING SEMESTER |  |  | 15 |
| COURSE NUMBER | COURSE NAME | CH |  |
| HIS or POL | Social Sciences | 3 |  |
| ENG 101 | English Composition I | 3 |  |
| CPT Elective | CPT Elective Part 2 | 3 |  |
| CPT Elective | CPT Elective Part 2 | 3 |  |
| CPT Elective | CPT Elective Part 2 | 3 |  |

CPT Electives: Choose any six of the following courses

| Part 1 <br> (Fall) | Choose 3 courses for 9 hrs | Part 2 <br> (Spring) | Choose 3 courses for 9 <br> hrs |
| :--- | :--- | :--- | :--- |
| CPT 182 | Beg. Programming C++ | CPT 186 | Adv. Programming C++ |
| CPT 280 | Visual Basic | CPT 282 | Adv. Visual Basic |
| CPM 284 | Java Programming | CPT 287 | Adv. Java Programming |
| CPT 240 | SQL Basics | CPT 260 | Oracle Programming |
| CPT 104 |  <br> Games | CPT 250 | Database Programming |
| CPT 190 | Dynamic Prog. Languages | CPT 160 | Mobile Apps Development |
| CPT 174 | COBOL Programming I | CPT 185 | Programming in C\# |
| CPT 135 | Programming in Python | CPT 175 | COBOL Programming II |
|  |  |  |  |

Gainful Employment Disclosure Information

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|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Web Design C.A.

## Web Design C.A.



## What Is Web Design?

This program option provides students the knowledge to develop vibrant websites. Students will focus on Web page design and development, 2D and 3D graphics and animation for the Web, database and dynamic scripting (programming) languages, apps development, content management systems and social media marketing.

## Occupation Overview

Web designers design Web pages, graphic content and animation, using HTML and Web editors to determine determine the look and feel of an entire website. Specialized coursework in Internet and website technology is very helpful. Courses should include Internet software languages, website design using graphics and audiovisual techniques, website setup and maintenance and information security. Courses in marketing and advertising will strengthen your credentials. When seeking an entry-level position in this field, it is important to have a portfolio containing samples of your best work.

## Learn more from SCC Career Services

## Web and Multimedia Careers

SCC graduates are employed in a broad range of careers, including, but not limited to: multimedia developer, webmaster, Web programmer, game developer and creative director.

## Occupational Outlook

Employment of multimedia and Web professionals is projected to grow 20 percent through 2022, faster than the average for all occupations. Demand will be driven by the growing popularity of mobile devices and e-commerce.

Local/regional placement and outlook have been higher than average compared to the national outlook.


## Salary Outlook

Nationally, established Web and multimedia professionals generally earn between $\$ 33,130$ and $\$ 58,140$ per year. Exceptional performers can earn in excess of $\$ 76,450$.

Opportunities for advancement and


FIND OUT MORE!
about SCC
Success Story

## Chris Ruth

"They had the courses I was looking for. And the price was right; compared to other colleges and universities, SCC was very competitive."

Full Story

## Department

Computer Science - Multimedia and Web Design

## Related Degrees/ Certificates

[^5]

| HIS or POL | Social Sciences | 3 |
| :--- | :--- | :--- |
|  | Choose one of the core requirements * | 3 |
| CPT 106 | PC Operating Systems | 3 |
| CPM 120 | Windows Multimedia | 3 |
| CPM 160 | HTML | 3 |
| *Core requirements include CPM 190, 215, 230, 240, 250, 260, 280, CPT 160. |  |  |
| Gainful Employment Disclosure Information |  |  |



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## Certificate Info.

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- Graduation Requirements

Home » Academics » College Catalog > Degrees \& Certificates » Law Enforcement C.A.

## Law Enforcement C.A.



## What Is Law Enforcement C.A.?

This certification program prepares individuals to perform the duties of police and public security officers, including patrol and investigative activities, traffic control, crowd control and public relations, witness interviewing, evidence collection and management, basic crime prevention methods, weapon and equipment operation and maintenance, report preparation and other routine law enforcement responsibilities.

## Occupation Overview

Criminal Justice graduates may enter fields ranging from protective services, law enforcement and criminology.

## Learn more from SCC Career Services

## Criminal Justice Careers

Depending on job experience and additional education, graduates with a law enforcement Certificate of Achievement (C.A.) are employed in a broad range of careers including, but not limited to: compliance officer, computer security specialist, correction officer, court clerk, court reporter, police and detectives supervisor, police officer and sheriff.

## Salary Outlook

In the state of Missouri, employees working in the criminal justice field earn a mean average of 37,200 per year, depending on education, experience and employer. Source: Bureau of Labor Statistics

According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.


FIND OUT MORE!
about SCC
Success Story

## John Ayres

"Professor Van Mierlo's class was a great learning experience. Since he is a lawyer, he sees both sides of criminology."

Full Story

## Department

## Criminal Justice

## Related Degrees/

## Certificates

- Criminal Justice Transfer Program Schedule Guide
- Law Enforcement A.A.S.


## Program Contact

| Degree Name: | Law Enforcement C.A. |
| :--- | :--- |
| Degree or Program: | Criminal Justice |
| Degree Type: | Certificate of Achievement |

## Office Info

## Office Hours

7:45 a.m.-4:15 p.m.
Monday-Friday
Office Location
Social Sciences Building, Room 1104
Office Phone Number
636-922-8398

| Other Required Course |  |  | $2-7$ |
| :--- | :--- | :--- | :--- |
|  | CRJ 265 | Internship I | $1-6$ |
|  | CRJ 298 | Capstone | 1 |
| TOTAL REQUIRED HOURS |  | $32-38$ |  |
|  |  |  |  |
| FStudents who take CRJ 291 are required to take CRJ 292 as well. |  |  |  |
| For more information, call 636-922-8253 or email dvanvierlo@stchas.edu. |  |  |  |
| Gainful Employment Disclosure Information |  |  |  |

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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Global Studies C.A.

Global Studies C.A.

| Degree Name: | Global Studies C.A. |
| :--- | :--- |
| Degree or Program: | Global Culture |
| Degree Type: | Certificate of Achievement |
| Description: |  |
| This program is designed to enable students to develop a fundamental level of |  |
| international and intercultural competence, and to prepare them to assume their role in |  |
| an increasingly complex, interconnected and interdependent world. Additionally, the |  |
| Program will reinforce the four State-Level Skill Area Goals and the four State-Level |  |
| Knowledge Area Goals of the new General Education structure using an explicit global |  |
| focus. |  |


| General Education Requirements | $6-8$ |
| :--- | :--- |


|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| :---: | :---: | :---: | :---: | :---: |
| Communication | Pick One <br> ENG 101 <br> ENG 102 <br> SPE 101 <br> SPE 102 | English Composition I <br> English Composition II <br> Oral Communications <br> Public Speaking | 3 |  |
|  | Pick One: <br> BTC/CPT 103 CPT 115 <br> MAT 098 <br> BIO 100 <br> BIO 105/106 <br> BIO 110/113 <br> BIO 120/121 <br> BIO 122 <br> BIO 130 <br> CHM 101/103 <br> CHM 115 <br> PHY 111/113 <br> PHY 125/127 <br> PHY 130 <br> PHY 150/153 <br> PHY 240/243 | Microcomputer Applications Introduction to Data Processing Beginning Algebra Introduction to Biology Essentials of Biology I and Lab Human Biology and Lab Introduction to Ecology and Lab Environmental Science Human Sex and Reproduction Introduction to Chemistry and Lab General Chemistry I and Lab Introduction to Physical Science and Lab Introduction to Physical Geology and Lab <br> Astronomy <br> General Physics I and Lab College Physics I and Lab | 3-5 |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 6-7 |
|  | GLS 101 | Introduction to Global Studies | 3 |  |
|  |  | Foreign Language course numbered 201 or higher | 3-4 |  |
| ELECTIVE COURSES |  |  |  | 15-18 |
|  | Choose at least two*: ART 101 |  | $\begin{aligned} & 6- \\ & 12 \end{aligned}$ |  |



FIND OUT MORE!
about SCC

## Department

Global Culture/Global Studies

## Program Contact

Denise McCracken
636-922-8447
dmccracken@stchas.edu

## Office Coordinator

## Karen Murray

636-922-8556
kmurray@stchas.edu

## Office Info

## Office Hours

8 a.m.-5:30 p.m. Monday-Thursday
8 a.m.-4:30 p.m. Friday

## Office Location

Humanities Building, Room 203

## Office Phone Number

636-922-8556


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## Certificate Info.

The Certificate of Achievement is awarded to students completing the requirements of one of the career programs with a minimum of 30 semester hours.

- Graduation Requirements

Home » Academics » College Catalog » Degrees \& Certificates » Practical Nursing C.A.

## Practical Nursing C.A.

| Degree Name: | Practical Nursing C.A. |
| :--- | :--- |
| Degree or Program: | Health |
| Degree Type: | Certificate of Achievement |
| Description: |  |
| The practical nursing program at SCC teaches students to provide direct care for patients <br> through classroom and campus laboratory work as well as on-site training in hospital, <br> geriatric and other health care settings. |  |

The practical nursing program is fully approved by the Missouri State Board of Nursing.

Upon successful completion of the program, graduates are eligible to apply to take the National Licensure Exam for Practical Nurses. However, completion of this program does not guarantee licensure. The state board may refuse licensure to applicants who may jeopardize the well-being of Missouri citizens.
"The Missouri State Board of Nursing may refuse to issue any certificate of registration or authority, permit or license required pursuant to this chapter for one or any combination of causes stated in subsection 2 of this section. (1-14) 1990." RSMO 335.066.

| General Education Requirements |  |  |  | 17 |
| :--- | :--- | :--- | :--- | :--- |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Communication | ENG 096 or <br> ENG 101 | Developmental Writing II or <br> English Composition I | 3 |  |
| Social Science | PSY 101 <br> SOC 151 or <br> SOC 251 or <br> PSY 225 | Into to Psychology <br> Gerontology or <br> Aspect of Aging or <br> Psychology of Aging | 3 | 3 |

CORE COURSE REQUIREMENTS MUST INCLUDE:
33

| NPN 100 | Personal \& Vocational Concepts | 1 |
| :--- | :--- | :--- |
| NPN 101/111/121 | Fundamentals of Nursing | 7 |
| NPN 102/112 | Maternal Child Nursing | 6 |
| NPN 151/161/171 | Medical-Surgical Nursing I | 11 |
| NPN 152/162/172 | Medical-Surgical Nursing II | 8 |

TOTAL REQUIRED HOURS
50

For more information, contact 636-922-8280.

## Gainful Employment Disclosure Information



## FIND OUT MORE!

## Department

## Practical Nursing Program

## Related Degrees/ Certificates

- Emergency Medical Science A.A.S.
- Health Information Management A.S.
- Nursing A.S.
- Occupational Therapy Assistant A.A.S.
- Pre-Health Professions Suggested Transfer Program (Medical, Dental, Optometry, Veterinary) Schedule Guide


## Office Coordinator

Denise Lammers
636-922-8280
dlammers@stchas.edu

## Office Info

## Office Hours

8 a.m.-4:30 p.m. Monday-Friday. Hours may vary during summer please call to confirm.
Office Location

## 

Certificates of Specialization - 2014-

## 15

Art

- Print Media C.S.

Business Administration

- Accounting C.S.
- Banking/Finance C.S.
- Management C.S.
- Marketing C.S.


## Computer Science

- Computer Security C.S.
- Multimedia C.S.
- Web Development C.S.

English as a Second Language

- English as a Second Language C.S.

Graphic Design

- Print Media C.S.


## Marketing

- Marketing C.S.

Multimedia

[^6]

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## Certificate Info.

Certificates of Specialization are
for people who desire information or skills in a specific area that is usually related to their current job. Students must complete specific program requirements as listed under each program in the catalog. They can usually be completed in a short period of time. The credit hours earned can be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field, should the student wish to continue study.

Home » Academics » College Catalog » Degrees \& Certificates » Print Media C.S.

## Print Media C.S.

| Degree Name: | Print Media C.S. |  |  |
| :--- | :--- | :--- | :--- |
| Degree or Program: | Graphic Design |  |  |
| Degree Type: | Certificate of Specialization |  |  |
| Description: <br> Earning a Certificate of Specialization in Print Media provides a way for students to <br> upgrade existing or to learn new skills in the area of print media. Students will be <br> awarded this certificiate only upon successful completion of all the following courses. |  |  |  |
| General Education Requirements | COURSE NAME | 0 |  |
| COURSE NUMBER | Drawing I | CREDIT HOURS |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: | 3 | 17 |  |
| ART 110 | Design I | Macintosh Basics | 2 |
| ART 170 | Printmaking I | 2 |  |
| ART 190 | Page Layout on the Macintosh | 4 |  |
| ART 260 | Digital Imaging | 3 |  |
| ART 290 |  | 3 |  |
| ART 291A |  | 17 |  |
| TOTAL REQUIRED HOURS |  |  |  |

## FIND OUT MORE!

about SCC

## Department

## Art

## Related Degrees/ Certificates

- Art/Graphic Design Transfer Program Schedule Guide
- Graphic Design A.A.S.


## Office Info

## Office Hours

8:30 a.m.-5:30 p.m.
Monday-Thursday

8:30 a.m.-2:30 p.m.
Friday

## Office Location

Visual Arts Building
Office Phone Number
636-922-8556


## Academics

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## Certificate Info.

Certificates of Specialization are for people who desire information or skills in a specific area that is usually related to their current job. Students must complete specific program requirements as listed under each program in the catalog. They can usually be completed in a short period of time. The credit hours earned can be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field, should the student wish to continue study.

Home » Academics » College Catalog » Degrees \& Certificates » Accounting C.S.

## Accounting C.S.



## What Is Business <br> Administration Accounting?

This certificate program prepares students to provide support to professional accountants and other financial management personnel. This program includes instruction in posting transactions to accounts, record-keeping systems, accounting software operation and general accounting principles and practices.

## Occupation Overview

Individuals working in accounting will aid in the preparation and examination of financial records to ensure financial records are accurate and that taxes are paid properly and on time.

## Occupational Outlook

Depending on job experience and additional education, positions that have a bright outlook in the accounting field include, accounting clerk, bookkeeper, budget accountant, business service specialist, certified public accountant (CPA) and finance manager. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in high growth industries.


Apply now?

FIND OUT MORE!
about SCC
Success Story

## Zsantee Tapley

"In the past, I had to teach myself how to do my job. Now that I have an education, there is more certainty in what I'm doing. I worked really hard for this, and I deserve it."

Full Story

## Department

Business Administration - Accounting

## Related Degrees/ Certificates

## - Banking/Finance C.S.

- Business Administration A.A.S.
- Business Administration C.A.
- Business Transfer Program Suggested Schedule Guide
- Management C.S.
- Marketing C.S.


## Program Contact

[^7]According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

| Degree Name: |  | Accounting C.S. |  |
| :---: | :---: | :---: | :---: |
| Degree or Program: |  | Business Administration |  |
| Degree Type: |  | Certificate of Specialization |  |
| Description: <br> A Certificate of Specialization in Accounting targets people already in the workforce, seeking to improve skills or wanting to obtain new skills. The specialized certificate requires 16 credit hours, no general education credits and consists of five classes. |  |  |  |
| General Education Requirements |  |  | 0 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  | 10 |
| ACT 101 | Applied Accounting** | 3 |  |
| ACT 110 | Financial Accounting | 4 |  |
| ACT 115 | Computerized Accounting | 3 |  |
| ELECTIVE COURSES: Pick Two (2) |  |  | 6 |
| Any ACT |  | 3 |  |
| Any BUS |  | 3 |  |
| Any ECO |  | 3 |  |
| TOTAL REQUIRED HOURS |  |  | 16 |
| ** If the student has an accounting background or experience, ACT 101 can be waived |  |  |  |

## Office Coordinator

Ginny Tiller
636-922-8334
gtiller@stchas.edu

## Office Info

## Office Hours

Monday-Friday
7:30 a.m.-4 p.m.

Office Location
Technology Building, Room 205
Office Phone Number
636-922-8419


## Academics

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## Certificate Info.

Certificates of Specialization are for people who desire information or skills in a specific area that is usually related to their current job. Students must complete specific program requirements as listed under each program in the catalog.
They can usually be completed in a short period of time. The credit hours earned can be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field, should the student wish to continue study.

Home » Academics » College Catalog » Degrees \& Certificates » Banking/Finance C.S.

## Banking/Finance C.S.



## What Is Business Administration Banking/Finance C.S.?

This certificate program provides students with improved banking and finance skills. This certificate program targets people already in the workforce, seeking to improve skills or wanting to obtain new skills. The specialized certificate requires 15 credit hours, no General Education credits and consists of five classes.

## Occupation Overview

Individuals working in finance will plan, manage and analyze the financial and monetary aspects and performance of business enterprises, banking institutions or other organizations. It includes instruction in principles of accounting, financial instruments, capital planning, funds, acquisition, asset and debt management, budgeting, financial analysis and investments and portfolio management.

Learn more from SCC Career Services
Business Administration Careers - Banking/Finance

## Occupational Outlook

Depending on job experience and additional education, positions in banking/finance that have a bright outlook include bank and branch manager, business service specialist, controller, financial worker, general operations manager, loan officer and treasurer. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in high growth industries.

Because of the diversity of the banking and finance career field, there is a varied job outlook. For most jobs, the outlook for growth from years 2012 to 2022 ranges from 4 to 26 percent.


## Salary Outlook

In the state of Missouri, people well

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday
Apply
0 now!

## FIND OUT MORE!

about SCC

## Success Story

## Erik Vasquez

"SCC has made the transition from high school to college a lot easier. I have a great opportunity to do something successful with my life."

Full Story

## Department

## Economics/Finance

## Related Degrees/ Certificates

- Accounting C.S.
- Business Administration A.A.S.
- Business Administration C.A.
- Business Transfer Program Suggested Schedule Guide
- Management C.S.
- Marketing C.S.


## Office Info

Office Location

Graduates with a banking/finance
Certificate of Specialization (C.S.) are employed in a broad range of careers including, but not limited to: accounting clerk, actuary, administrative assistant, business service specialist, budget analyst, contract administrator, credit analyst, estimator, financial analyst, financial examiner, financial planner, foreign exchange trader, insurance agent, loan officer, management consultant analyst, market research analyst and title examiner.

| Degree Name: |  | Banking/Finance C.S. |  |
| :---: | :---: | :---: | :---: |
| Degree or Program: |  | Business Administration |  |
| Degree Type: |  | Certificate of Specialization |  |
| Description: <br> A Certificate of Specialization in finance targets people already in the workforce, seeking to improve skills or wanting to obtain new skills. The specialized certificate requires 15 credit hours, no General Education credits and consists of five classes. |  |  |  |
| General Education Requirements |  |  | 0 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  | 6 |
| BUS 101 | Introduction to Business | 3 |  |
| BUS 220 | Principles of Finance | 3 |  |
| ELECTIVE COURSES: Pick Three (3) |  |  | 9 |
| Any ACT |  | 3 |  |
| Any BUS |  | 3 |  |
| Any ECO |  | 3 |  |
| TOTAL REQUIRED HOURS |  |  | 15 |



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## Certificate Info.

Certificates of Specialization are
for people who desire
information or skills in a specific area that is usually related to their current job. Students must complete specific program requirements as listed under each program in the catalog. They can usually be completed in a short period of time. The credit hours earned can be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field, should the student wish to continue study.

Home » Academics » College Catalog » Degrees \& Certificates » Management C.S.

## Management C.S.



## What Is Business <br> Administration Management C.S.?

A business management certificate is a short-term education program that covers the basics of the business world. Students will learn about basic management principles, human resource management and business practices. Students will also learn basic accounting and communication skills. This program offers a certificate instead of a degree.

A certificate in Business Administration Management can open doors for the unskilled worker or help brush up on skills for someone who is already working in the business world. Whether a student owns a small business or is looking for ways to boost his or her marketability, this certificate will be beneficial.

## Occupation Overview

Students who choose a career in management have the option to work in a variety of fields. They will organize and coordinate business activities to aid in achieving a business' goals.

## Learn more from SCC Career Services

## Business Administration Management Careers

SCC graduates with a management certificate of specialization (C.S.) are

## Occupational Outlook

Depending on job experience and additional education, positions in management that have a bright outlook include construction manager, crop and livestock manager, emergency management specialist, farmers and ranchers, general and operations managers, green house and nursery manager, hospital administrator, medical records administrator and quality control manager. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in high growth industries.


## Salary Outlook

In the state of Missouri, people well established in a food service management career earn a mean average of $\$ 46,770$.


FIND OUT MORE!
about SCC

## Success Story

## Erik Vasquez

"SCC has made the transition from high school to college a lot easier. I have a great opportunity to do something successful with my life."

Full Story

## Department

## Business Administration

## Related Degrees/

## Certificates

- Accounting C.S.
- Banking/Finance C.S.
- Business Administration A.A.S.
- Business Administration C.A.
- Business Transfer Program Suggested Schedule Guide
- Marketing C.S.


## Program Contact

## Anna Boulware

636-922-8328
aboulware@stchas.edu
Office Coordinator
employed in a broad range of careers including, but not limited to: food service manager, retail manager and shift supervisor.

Source: Bureau of Labor Statistics
According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

| Degree Name: | Management C.S. |  |  |  |
| :--- | :--- | :--- | :---: | :---: |
| Degree or Program: | Business Administration |  |  |  |
| Degree Type: | Certificate of Specialization |  |  |  |
| Description: <br> A Certificate of Specialization in Management targets people already in the workforce, <br> seeking to improve skills or wanting to obtain new skills. The specialized certificate <br> requireds 15 credit hours, no general education credits and consists of five classes. |  |  |  |  |
| General Education Requirements |  | 0 |  |  |
| CORE COURSE REQUIREMENTS MUST INCLUDE: | 3 | 6 |  |  |
| BUS 101 | Introduction to Business | 3 |  |  |
| BUS 201 | Principles of Management | 3 |  |  |
| ELECTIVE COURSES: Pick Three (3) |  |  |  |  |
| Any ACT |  | 3 |  |  |
| Any BUS | 3 | 3 |  |  |
| Any ECO |  | 3 |  |  |
| TOTAL REQUIRED HOURS | 15 |  |  |  |

Ginny Tiller
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gtiller@stchas.edu

## Office Info

## Office Hours

7:30 a.m.-4 p.m.
Monday-Friday

## Office Location

Technology Building, Room 205
Office Phone Number
636-922-8419


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## Certificate Info.

Certificates of Specialization are for people who desire information or skills in a specific area that is usually related to their current job. Students must complete specific program requirements as listed under each program in the catalog. They can usually be completed in a short period of time. The credit hours earned can be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field, should the student wish to continue study.

Home » Academics » College Catalog » Degrees \& Certificates » Marketing C.S.

## Marketing C.S.



## What Is Business Administration - Marketing C.S.?

This certificate program generally prepares individuals to undertake and manage the process of developing consumer audiences and moving products from producers to consumers. It includes instruction in buyer behavior and dynamics, principle of marketing research, demand analysis, costvolume and profit relationships, pricing theory, marketing campaign and strategic planning, market segments, advertising methods, sales operations and
management, consumer relations, retailing and applications to specific products and markets.


```
Learn more from SCC Career Services
```


## Business Administration Careers - Marketing

SCC graduates with a certificate in marketing are employed in a broad range

## Occupational Outlook

Depending on job experience and additional education, positions in marketing that have a bright outlook include marketing manager, public relations specialist, retail buyer and sales representative. These positions are projected to experience rapid increases in employment with large numbers of job openings over the next several years or are new and emerging occupations in highgrowth industries.

Employment of advertising, promotions and marketing managers is projected to grow up to 15 percent from 2012 to 2022, about as fast as the average occupations. Advertising, promotions and marketing will continue to be essential for organizations as they seek to maintain and expand their share of the market.
of careers including, but not limited to: advertising sales promotion manager, buyer, fashion coordinator, fund raiser, market research analyst, marketing manager, purchasing manager, sales manager, sales representative, sports event planner and telemarketer.

| Degree Name: | Marketing C.S. |  |
| :--- | :--- | :--- |
| Degree or Program: | Business Administration |  |
| Degree Type: | Certificate of Specialization |  |
| Description: <br> A Certificate of Specialization in marketing targets people already in the workforce, <br> seeking to improve skills or wanting to obtain new skills. The specialized certificate <br> requires 15 credit hours, no General Education credits and consists of five classes. |  |  |
| General Education Requirements |  | 0 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  | 6 |
|  | BUS 101 | Introduction to Business |
| BUS 230 | Principles of Marketing | 3 |
| ELECTIVE COURSES: Pick Three (3) |  | 3 |
|  | Any ACT |  |
| Any BUS |  | 3 |
| Any ECO |  | 3 |
| TOTAL REQUIRED HOURS | 3 |  |

Source: Bureau of Labor Statistics
According to the U.S. Department of Labor, earnings increase significantly as a worker's degree of education rises.

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## Office Info

## Office Hours

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Home » Academics » College Catalog » Degrees \& Certificates » Computer Security C.S.

## Computer Security C.S.

## What Is Computer Security?

Computer security professionals control access to information and prevent unauthorized tampering or disclosure of information.

## Occupation Overview

Computer security specialists plan, coordinate and implement security measures for information systems. They work with company or government personnel to understand the current system and any security needs that need to be addressed. They test data processing systems to ensure proper functioning and security and modify computer security files to incorporate new software to correct errors or change access status to information. They develop plans to safeguard computer files from accidental or unauthorized modification, destruction or disclosure of information. They also develop plans to meet emergency data processing needs.

Computer security specialists install protective software or make changes to existing software. They may coordinate implementation of computer system security plans with personnel and outside vendors and build firewalls to keep unauthorized users from accessing information. They monitor data logs that report all activity on the system and look for any unusual activity.

## Learn more from SCC Career Services

## Computer Security Careers

SCC graduates are employed in a broad range of careers including, but not limited to: computer security specialist, computer forensics specialist, network security administrator, network security engineer, information systems security manager, systems security administrator, data security analyst and chief security officer.

## Occupational Outlook

This field is rapidly expanding with emerging needs related to increased use of the Internet by businesses and new concerns regarding information terrorism. Employment of information security analysts is projected to grow 37 percent through 2022, much faster than the average for all occupations.


## FIND OUT MORE!

about SCC

## Department

## Computer Science

## Related Degrees/ Certificates

 now?
## Salary Outlook

The median hourly wage for computer security analysts in Missouri is $\$ 36.87$. People established in computer security careers generally earn between $\$ 52,940$ and $\$ 85,830$ per year. Exceptional performers can earn in excess of \$105,970.

Apply

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Cyber Security A.A.S.
- Data Management C.A.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Multimedia C.S.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.
- Web Design C.A.
- Web Development C.S.


## Program Contact

## Rex McKanry

636-922-8289
rmckanry@stchas.edu
Office Coordinator

| Sources: FOCUS Online Career and Education Planning Systems. |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Degree Name: |  | Computer Security C.S. |  |  |
| Degree or Program: |  | Computer Science |  |  |
| Degree Type: |  | Certificate of Specialization |  |  |
| Description: <br> A Certificate of Specialization in Computer Security provides an additional option for students to upgrade skills in a focused area of study. Students completing all of these courses at SCC also earn the CNSS 4011 Information Systems Security Professionals Certificate, recognized by the National Security Agency (NSA) in Washington, DC. |  |  |  |  |
| General Education Requirements |  |  |  | 0 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: |  |  |  | 23 |
| CPT/BUS 105 | Computer | Ethics | 3 |  |
| CPT 115 | Introductio | to Data Processing | 3 |  |
| CPT 121 | Basics of | ata Communications | 2 |  |
| CPT 165 | Programm | ng Logic | 3 |  |
| CPT 200 | Systems A | nalysis and Design | 3 |  |
| CPT 246 | Computer | Security | 3 |  |
| CPC 170 | CCNA1 |  | 5 |  |
| TOTAL REQUIRED HOURS |  |  |  | 23 |
| Courses by Semester |  |  |  |  |
| FIRST SEMESTER |  |  |  | 12 |
| COURSE NUMBER | COURS | E NAME | CH |  |
| CPT/BUS 105 | Compu | er Ethics | 3 |  |
| CPT 115 | Introdu | tion to Data Processing | 3 |  |
| CPT 121 | Basics | of Data Communications | 3 |  |
| CPT 165 | Progra | ming Logic | 3 |  |
| SECOND SEMESTER |  |  |  | 11 |
| COURSE NUMBER | COURS | E NAME | CH |  |
| CPT 200 | System | Analysis \& Design | 3 |  |
| CPT 246 | Compu | er Security | 3 |  |
| CPC 170 | CCNA1 |  | 5 |  |

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## Office Info

## Office Hours

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## Office Location

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Home » Academics » College Catalog » Degrees \& Certificates » Multimedia C.S.

## Multimedia C.S.



## What Is Multimedia?

Multimedia has changed the way America works! You will learn the fundamentals of multimedia authoring and design using the latest programs on the market leading to entry-level positions.

## Occupation Overview

Multimedia developers produce and develop CD-ROMs, online training, kiosks and media development using video, audio, programming, animations and graphics. When seeking an entry-level position in this field, it is important to have a portfolio containing samples of your best work.

## Learn more from SCC Career Services

## Web and Multimedia Careers

SCC graduates are employed in a broad range of careers, including, but not limited to: multimedia developer, webmaster, Web programmer, game developer and creative director.

## Occupational Outlook

Employment of multimedia and Web professionals is projected to grow 20 percent through 2022, faster than the average for all occupations. Demand will be driven by the growing popularity of mobile devices and e-commerce.

Local/regional placement and outlook have been higher than average compared to the national outlook.


## Salary Outlook

Nationally, established Web and multimedia professionals generally earn between $\$ 33,130$ and $\$ 58,140$ per year. Exceptional performers can earn in excess of $\$ 76,450$.

Opportunities for advancement and promotion after entry-level employment are typically higher with an A.A.S. degree compared to certificates.


## FIND OUT MORE!

about SCC
Success Story

## Chris Ruth

"They had the courses I was looking for. And the price was right; compared to other colleges and universities, SCC was very competitive."

Full Story

## Department

Computer Science - Multimedia and Web Design

## Related Degrees/ Certificates

- Computer Programming A.A.S.
- Computer Science Transfer Program Schedule Guide
- Computer Security C.S.
- Cyber Security A.A.S.
- Data Management C.A.
- Database Management A.A.S.
- Management Information Systems A.A.S.
- Multimedia and Web Design A.A.S.
- Multimedia C.A.
- Network Security A.A.S.
- Networking A.A.S.
- Networking C.A.
- Programming Languages C.A.

Web Design C.A.

- Web Development C.S.

| Degree Name: | Multimedia C.S. |  |
| :--- | :--- | :--- |
| Degree or Program: | Computer Science |  |
| Degree Type: | Certificate of Specialization |  |
| Description: <br> A Certificate of Specialization in Multimedia provides an additional option for students to <br> upgrade skills in a focused area of study. Students will be awarded this certificate only <br> upon successful completion of all the following courses. |  |  |
| General Education Requirements |  | 0 |
| CORE COURSE REQUIREMENTS MUST INCLUDE: | 3 | 18 |
| CPM 120 | Windows Multimedia | 3 |
| CPM 170 | Computer Graphics (Adobe Illustrator) | 3 |
| CPM 210 | Digital Photo Editing (Adobe Photoshop) | 3 |
| CPM 220 | 3D Animation | 3 |
| CPM 250 | Web Animation (Adobe Flash) | 3 |
| CPM 270 | Digital Video Editing (Adobe Premiere) | 18 |
| TOTAL REQUIRED HOURS |  |  |
| For more information, call 636-922-8241. |  |  |

Program Contact

Jane O'Donnell<br>636-922-8594<br>jodonnell@stchas.edu<br>\section*{Office Coordinator}

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## Office Info

## Office Hours

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Office Phone Number
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Home » Academics » College Catalog » Degrees \& Certificates » Web Development C.S.

## Web Development C.S.



## What Is Web Development?

This program option provides students the knowledge to develop vibrant websites. Students will focus on Web page design and development, 2D and 3D graphics and animation for the Web, database and dynamic scripting (programming) languages, apps development, content management systems and social media marketing.

## Occupation Overview

Web designers determine the look and feel of an entire website. Specialized coursework in Internet and website technology is very helpful. Courses should include Internet software languages, website design using graphics and audiovisual techniques, website setup and maintenance and information security. Courses in marketing and advertising will strengthen your credentials. When seeking an entry-level position in this field, it is important to have a portfolio containing samples of your best work.

## Learn more from SCC Career Services

## Web and Multimedia Careers

SCC graduates are employed in a broad range of careers, including, but not limited to: webmaster, Web programmer, multimedia developer, game developer and creative director.

## Occupational Outlook

Employment of multimedia and Web professionals is projected to grow 20 percent through 2022, faster than the average for all occupations. Demand will be driven by the growing popularity of mobile devices and e-commerce.

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## Salary Outlook

Nationally, established Web and multimedia professionals generally earn between $\$ 33,130$ and $\$ 58,140$ per year. Exceptional performers can earn in excess of $\$ 76,450$.

Opportunities for advancement and


FIND OUT MORE!
about SCC
Success Story

## Chris Ruth

"They had the courses I was looking for. And the price was right; compared to other colleges and universities, SCC was very competitive."

Full Story

## Department

Computer Science - Multimedia and Web Design

## Related Degrees/ Certificates

[^8]promotion after entry-level employment are typically higher with an A.A.S. degree compared to certificates.

Sources: FOCUS Online Career and Education Planning Systems.


Programming Languages C.A.

- Web Design C.A.

Program Contact

```
Jane O'Donnell 636-922-8594
jodonnell@stchas.edu
```


## Office Coordinator

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## Office Info

## Office Hours

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## Certificate Info.

Certificates of Specialization are for people who desire information or skills in a specific area that is usually related to their current job. Students must complete specific program requirements as listed under each program in the catalog.
They can usually be completed in a short period of time. The credit hours earned can be applied toward a Certificate of Achievement and/or an Associate of Applied Science degree in the related field, should the student wish to continue study.

Home » Academics » College Catalog » Degrees \& Certificates » English as a Second Language C.S.

## English as a Second Language C.S.

| Degree Name: | English as a Second Language C.S. |
| :--- | :--- |
| Degree or Program: | English as a Second Language |
| Degree Type: | Certificate of Specialization |
| Description: |  |
| A Certificate of Specialization in English as a Second Language that targets non-native |  |
| speakers who are working to build English language skills while preparing to take college |  |
| courses in all disciplines. This certificate contains 18 credit hours, encouraging mastery of |  |
| English Reading, Writing and Speaking skills, and would consist of at least, but not |  |
| limited to six courses. |  |


| General Education Requirements |  |  |  | 9-12 |
| :---: | :---: | :---: | :---: | :---: |
|  | COURSE NUMBER | COURSE NAME | CREDIT HOURS |  |
| Writing | At Least One: ESL 107 ESL 108 ESL 109 | Intensive Grammar Review for NonNative Speakers Intermediate Composition for NonNative Speakers Research Writing for Non-Native Speakers | 4 3 3 |  |
| Speaking \& Listening | At Least One: | Pronunciation \& Communication \& Listening for Non-Native Speakers | $\begin{aligned} & 4 \\ & 3 \end{aligned}$ |  |

## FIND OUT MORE!

about SCC

## Department

English as a Second Language

## Program Contact

Dawn Huffman
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## Office Coordinator

## Shannon Beahan

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## Office Info

## Office Hours

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## Office Location

Humanities Building, Room 203

## Office Phone Number

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|  | Class <br> ART 101 <br> ART 150 <br> Art Studio <br> Course | 3 3 |  |
| :---: | :---: | :---: | :---: |
| Elective | ART (Studio Art) <br> BAS 101 <br> BAS/CPT 103 <br> BAS 130 <br> BAS 131 <br> BAS 132 <br> BAS 135 <br> BAS 136 <br> BAS 137 <br> COL 090 <br> CPT Courses (Non-English intensive) <br> CRJ 140 <br> ESL 100 <br> ESL-107r ESL-108r ESL 103/SPE 100 <br> ESL 105 <br> ESL 109 <br> ESL 120 <br> ESL 299 <br> Foreign Language (must have completed ESL 102) <br> HMS 100 <br> Any MAT <br> MUS (any performance class) <br> RDG 080 <br> RDG 081 <br> RDG 083 <br> RDG 084 <br> RDG 090 <br> RDG 104 <br> RDG 106 <br> SPE 101 (must have completed ESL 105) | 3 |  |
| TOTAL REQUIRED HOURS |  |  | 18-22 |

## 2015

## Accounting

## ACT 101 Applied Accounting ... 3

Introduces the accounting cycle. Basic concepts covered include double-entry bookkeeping and examination of basic financial reports such as the balance sheet, statement of owner's equity and income statement. Emphasis on cash receipts, cash disbursements, accounts receivable and accounts payable. Some assignments made using general ledger accounting software. Intended to be the first accounting course for students who have not taken high school accounting or have no accounting experience.

## ACT 105 Personal Accounting and Finance ... 3

Overview of practical business procedures, covering banking procedures (ATM, statements), investment matters, budgeting, insurance, payroll and associated taxes, interest, marketing and other economic issues, and other areas important to economic survival in a highly sophisticated business environment.

## ACT 110 Financial Accounting I ... 4

Prerequisites: ACT 101 or high school accounting strongly recommended
Introduction to financial accounting, through the theory and logic underlying accounting procedures as well as the measurement and presentation of financial data. Brief review of the basic accounting cycle. Development of fundamental concepts in determination of income and presentation of financial position of business firms. Exposure to partnership accounting as well as coverage of corporation accounting including stocks, stockholder equity transactions, and bonds. Introduction to international accounting as well as statement of cash flows.

## ACT 115 Computerized Accounting I ... 3

Prerequisites: ACT 101 or ACT 110 or successful completion of high school accounting or departmental approval.
Exposure to some of the most popular accounting software used in the marketplace by small and medium sized businesses. Computer application packages include Quickbooks, Peachtree, and Microsoft Excel. For students continuing their accounting/ business education or who want more knowledge in computerized accounting applications.

## ACT 130 Managerial Accounting ... 3

Prerequisites: ACT 110
Introduction to relevant costs for decision making, controlling, contribution approach to decision-making, and absorption costing versus direct costing effect on income. Coverage of segment profitability, budgeting, capital projects, selection and subsequent evaluation, cost volume and allocation involving joint costs decentralization, and performance measurement and transfer pricing. Emphasis on performance standards, activity-based costing, variance analysis, and responsibility accounting.

## ACT 198 Accounting Internship ... 1-3 hrs

Prerequisites: Requires prior approval of department chair or dean.
Students placed in a position or in business to gain practical experience and learn specific operational technologies.

## ACT 210 Intermediate Accounting I ... 3

Prerequisites: ACT 120 or ACT 130.
Accounting theory and practice related to the acquisition, use and disposal of fixed and intangible assets. Recognition and measurement of current assets including cash and inventories are covered. Includes comprehensive study of financial statements. Spring.

## ACT 220 Intermediate Accounting II ... 3

## Prerequisites: ACT 210

Continuation of accounting theory. Examination of traditional plant assets, long-term liabilities, stockholders equity and current subjects of controversy. Emphasis on income taxes, leases, inflation accounting, cash flow statements, pension accounting, determination of earnings per share and investments.

## ACT 240 Individual Income Tax Accounting ... 3

Prerequisites: ACT 110

Fundamentals of federal income taxation with emphasis on individuals. Topics include determination of income, exclusions, exemptions, personal and business deductions, credits, accounting methods, and capital gains and losses.

## ACT 245 Cost Accounting ... 3

Prerequisites: ACT 120 or ACT 130.
Focus on accountant as information gatherer and interpreter. Includes fundamental elements of production costs, budgeting, standard costs, and analysis of variances relate to interpretation and control of production costs, costing of spoilage, waste and scrap, and activity-based costing.

## Anthropology

## ANT 102 Introduction to Cultural Anthropology ... 3

Study of diverse human cultures. Introduction of basic concepts and techniques practiced by cultural anthropologists. Topics include language, kinship, gender, economics, politics, ecology, and religion. Discussion of problems resulting when traditional societies confront industrial societies or industrialization.

## ANT 103 Introduction to Archaeology ... 3

Introduction to archaeology, with emphasis on scientific methods and procedures, tools, and techniques used by archaeologists to recover information about the past from the material remains.

## ANT 105 Introduction to Biological Anthropology ... 3

Survey of common topics, including human evolutionary fossil record, modern physical variations such as ?race,? forensics, and primate behavior and evolution.

## ANT 151 World Archaeology ... 3

Examines archaeological discoveries from prehistoric cultures and ancient civilizations of Africa, Asia, Europe, the Americas, and Oceania. Exploration of human achievements from earliest human ancestors to the present to develop understanding of human condition and foundations of modern world.

## ANT 161 Archaeology of Religion ... 3

Study of what archaeology reveals about early religions beyond the information contained in historical texts. Material evidence provides different perspectives on the development, practice, and spread of religions around the world. Focus is on ancient Near East ? a shared backdrop for the emergence of the world religions of Judaism, Christianity, and Islam.

## ANT 171 Introduction to Egyptology ... 3

Introduction to history, geography, society, and culture of Ancient Egypt. Special emphasis on archaeological remains. A look at how ancient Egypt foundation for the modern world has been studied and portrayed.

## ANT 201 Field School in Archaeology ... 3-6 hrs

Exploration of practical methods of archaeological survey and excavation needed to learn about past civilizations and cultures. Students will participate in a dig or survey project in St. Charles County or at a location such as New Mexico or Madagascar.

## ANT 202 Current Debates in Anthropology ...

Focuses on contemporary debates in anthropology (such as ? do sexually egalitarian societies exist? Did Neanderthals interbreed with modern humans? Is ethnic conflict inevitable?) from all four subdisciplines of the field. Special emphasis and discussion of current issues in cultural anthropology.

## ANT 220 Middle East: People and Cultures ... 3

Survey of the cultural similarities and differences among the peoples of the Near and Middle East, including historical, ethnological, and contemporary relationships.

## ANT 224 People and Cultures of Africa ... 3

General anthropological survey of African cultures and civilizations, past and present, throughout the continent.

## ANT 290 Topics in Anthropology ... 3

Exploration of topic selected by instructor. Topic varies depending on semester and instructor.

## Arabic

## ARB 101 Arabic Language and Culture I ... 4

Basic Arabic language skills includes speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Explores cultures of Arabic-speaking countries.

## ARB 102 Arabic Language and Culture II ... 4

Prerequisites: ARB 101
Continuation of ARB 101. Explores cultures of Arabic-speaking countries.

## ARB 190 Topics in Arabic Language and Culture ... 1-3 hrs

Prerequisites: Dependent on topic.
Exploration of special topics and/or activities in Arabic language and culture.

## ARB 201 Arabic Language and Culture III ... 4

Prerequisites: ARB 102 or equivalent
Follow-up to ARB 102. Expanded opportunities for listening to, speaking, reading, and writing Modern Standard Arabic. Continued exploration of culture, with an emphasis on Arab intellectuals, poets and writers. Emphasis remains on linguistic functioning in real situations.

## ARB 202 Arabic Language and Culture IV ... 4

Prerequisites: ARB 201 or equivalent.
Follow-up to ARB 201. Precise and coherent use of Modern Standard Arabic language through development of the speaking, reading, writing and listening skills; more focus on syntax, morphology, and grammar. Students will take part in meaningful, functional communication that might be encountered in real life complex situations. Varied reading and writing activities representing cultural topics will be included. Media Arabic will be introduced.

## Art

## ART 1001 (previously ART 101) Art Appreciation ... 3

Lectures to stimulate visual, emotional and intellectual awareness of humankind's artistic heritage. Covers historically significant art forms from prehistoric through postmodernism. The course will not fulfill the requirements for a major in art.

## ART 1101 Mac Basics ... 2

Introduction to Macintosh computer platform. Overview of computer hardware, basic factory-installed software. Macintosh operation, troubleshooting, repair, and practices. Input and output devices, such as scanners, digital cameras, video equipment and printers.

## ART 1105 Digital Art Studio 3

Focus on introducing students to digital art forms, software programs, and the interrelationship of art and technology. Students will gain experience using digital tools to create fine art \& graphic communications pieces weaving technical skills into creative vision.

## ART 1200 (previously ART 170) 2-D Design (Design I) ... 3 (2)

Introduction to the basic study, use, and control of the art elements and principles of two-dimensional design that are fundamental to all visual arts through assigned problems using readings, discussion and exercises employing a variety of materials and tools. (Change in course number, title, and credit hours are effective fall 2015)

## ART 1205 (previously ART 180) Color Theory (Design II) ... 3 (2)

Prerequisites: ART 1200 (ART 170)
Continue to build mastery in both use and understanding of design elements and principles with specific emphasis on the interaction and application of color in design and exploration of various color theories through a series of exercises. (Change in course number, title, credit hours effective fall 2015)

## ART 1300 3-D Design ... 3

Introduction to the basic study, use, and control of the art elements and principles that govern three-dimensional design and structure through assigned problems using readings, discussion and exercises designed to employ of a variety of concepts, materials and tools specific to the construction of three-dimensional art making.

## ART 1400 (previously ART 110) Drawing I ... 3

Introduction to drawing through variety of methods, both traditional and contemporary. Emphasis placed on analysis of space and form as well as familiarization with and control of drawing material. Introduction to line, perspective, shading, and texture.

## ART 1405 (previously ART 120) Drawing II ... 3

Prerequisites: ART 1400 (ART 110)
Continuation of ART 1400 (110) reassessing methods and analysis with emphasis on color theory and use of wet and dry media.

## ART 1500 (previously ART 150) Survey of Western Art History I: Prehistory to End of the Middle Ages ... 3

Survey art history course focusing on historically significant cultures and forms of art and architecture in Western Civilization. Exploration of the development of human achievements from Prehistory to the end of the Middle Ages.

## ART 1505 (previously ART 151) Survey of Western Art History II: Renaissance to the Twentieth Century

 ... 3Prerequisites: ART 1001 (ART 101) or ART 1500 (ART 150)
Survey art history course focusing on historically significant cultures and forms of art and architecture in Western Civilization. Exploration of the development of human achievements from the Renaissance to the 20th century.

## ART 2100 History of Graphic Design ... 3

This is a survey course on the history of Graphic Design. This course will cover the history and development of visual communication. It will begin with the development of language and will trace the evolution of word and image throughout history using the works of designers and illustrators that have influenced the continuing development of the discipline. There will be an emphasis on the influence of technology, culture, major artistic movements, and socio-political factors on the evolution of graphic design.

## ART 2110 Page Layout ... 3

Prerequisites: ART 1105
Focus on page layout, publication design, and layout techniques covering a range of work, from flyers, brochures, magazines, multipage publishing as well as electronic formats. Typography, use of space and traditional industry standards and practices included as well as prepress guidelines for both print and electronic media.

## ART 2120 Typography ... 3

## Prerequisites: ART 1105

Focus of course will stress the refined use of typography as a design and communication tool. Students will study the history and classifications of letter-forms and use it in the creation of various typographical designs and presentations. Typical projects may range from letter and alphabet design to the use of typographical forms as the feature design elements in graphic designs or page layouts.

## ART 2130 Digital Imaging \& Illustration ... 3

Prerequisites: ART 1105 or instructor consent
Focus on the creation and digital manipulation of artwork \& images increasing familiarity with basic tools used the design. Projects focus on artwork and logo creation, image correction and adjustment, combining imagery, color correction, etc. Discussion and demonstration of traditional printing technology. Review of legal issues related to digital imagery and freelance design included.

## ART 2140 Web Design ... 3

Prerequisites: ART 2130 or instructor consent
Emphasis on web page design \& development. Topics include the conceptualization and construction of a variety of web sites, including individual pages, HTML, email, animation, etc. Implementation of all aspects of graphic design will play a part in the overall class. This is a continuation of student design studies, applying graphic concepts to the interactive Web.

## ART 2160 Motion Graphics

Prerequisites: ART 1105 and ART 2130 or permission of instructor
In this class students will learn the basics of motion graphics design and animation through completion of finished projects that may include movie/tv show titles, kinetic typography, commercials, info graphics and animated shorts.

## ART 2170 Video Production ... 3

Prerequisites: ART 221 or ART 1105 and ART 220 or Instructor Consent
Course will focus on video art as an expressive media. Students will learn the basics of video production/post production through completion of finished projects that may include music videos, interview/maker videos, commercials, how to videos, comedy shorts and short form stories. Cost of course may exceed \$200.

## ART 2199 Portfolio Design and Professional Practices ... 3

Prerequisites: instructor consent
Focus of the course will emphasize the opportunities and procedures in various fields of graphic design, illustration and the creative industries. Students will be guided in the preparation of a portfolio of their work, a resume, related documents and will learn practical interviewing techniques. The intent will be to prepare students to enter the art field with a confident and professional attitude.

## ART 2210 (previously ART 160) Modern and Contemporary Art History ... 3

Prerequisites: ART-1001 (ART 101) or ART-1500 (ART 150) or ART-1505 (ART 151).
Art History lecture course focusing on significant artistic developments and forms of art and architecture through exploration of the development of human achievements in the modern and contemporary era.

## ART 2220 (previously ART 222) History of Photography ... 3

Exploration of photography, its historical development, an examination of it as an art medium, and its influence on the development of modern art and contemporary culture.

## ART 2300 (previously ART 211) Drawing III ... 3

Prerequisites: ART 1405 (ART 120)
Continuation of Drawing II. Emphasis on variety of drawing materials and subject matter as well as development of individual expression.

## ART 2310 (previously ART 210) Figure Drawing I ... 3

Prerequisites: ART 1400 (ART 110)
Introduction to human-figure drawing through traditional and contemporary methods. Emphasis on analysis of space and form as well as human anatomy.

## ART 2320 (previously ART 250) Figure Drawing II ... 3

Prerequisites: ART 2310 (ART 210)
Continuation of Figure Drawing I with introduction of color theory and wet-drawing media.

## ART 2330 Figure Drawing III ... 3

Prerequisites: ART 2320
Studio art course that expands upon the core principles explored in Figure Drawing I and II along with broader experimentation in use of materials and deeper personal expression.

## ART 2390 (previously ART 299D) Special Problems in Studio Art: Drawing ... 3

Prerequisites: Permission of Instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2400 (previously ART 130) Painting I ... 3

Prerequisites: ART 1400 (ART 110)
Studio course where students work with oil paints to realistically represent subject matter in the tradition of Western Art and participate in critique sessions. Paint density, texture and chemistry will be discussed. The formal aspects of drawing will be applied. Painting demonstrations are designed to help each student understand the objective of the assignments. Students will prepare their own painting surfaces in order to learn and appreciate the craft involved with the entire process of creating a finished work of art..

## ART 2401 Painting For Non-Art Majors ... 3

An introduction to the fundamental concepts of painting in a studio environment. Students will become familiar with the materials and techniques used in painting. This course will not fulfill the requirements for a major in art.

## ART 2410 (previously ART 140) Painting II ... 3

Prerequisites: ART 2400 (ART 130)
Studio course where students work with paint to represent subject matter, broaden techniques learned in ART 2410, develop personal expression and participate in critique sessions. Paint density, texture and chemistry will be discussed. Painting demonstrations are designed to help each student understand the objective of the assignements. Students will prepare their own painting surfaces in order to learn and appreciate the craft involved with the entire process of creating a finished work of art.

ART 2420 (previously ART 240) Painting III ... 3
Prerequisites: ART 2410 (ART 140)
Continuation of Painting II. Special projects in both traditional and nontraditional materials and subject matter.

## ART 2430 (previously ART 241) Topics: Advanced Painting ... 3

Prerequisites: ART 2420 (ART 240)
Advanced course on contract individual study basis to gain greater expertise in painting.

## ART 2490 (previously ART 299H) Special Problems in Studio Art: Painting ... 3

Prerequisites: Permission of instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2500 (previously ART 135) Ceramics I ... 3

Prerequisites: ART 1300
A study of the basic principles of ceramics and ceramic art making with emphasis on the hand-building process and introduction to wheel throwing. Studio operations such as clay mixing, clay recycling, glaze mixing and kiln loading will also be covered.

## ART 2501 Ceramics For Non-Art Majors ... 3

An introduction to the fundamental concepts of ceramics in a studio environment. Students will become familiar with the materials and techniques used in ceramics. This course will not fulfill the requirements for a major in art.

## ART 2510 (previously ART 136) Ceramics II ... 3

Prerequisites: ART 2500 (ART 135)
Continuation of Ceramics I with more emphasis on wheel throwing skills, experimentation with glazes and creative design and expression. How to run a ceramics facility is covered through course participation in studio operations.

## ART 2520 (previously ART 297) Topics: Advanced Ceramics ... 3

Prerequisites: ART 2510 (ART 136)
Advanced course on contract individual study basis to gain greater expertise in ceramics.

## ART 2550 (previously ART 277) Jewelry I ... 3

Prerequisites: ART 1300
Introduction to materials and processes of jewelry making. Techniques include cutting, piercing, filing, joining, casting, forging, soldering, and cold connections. Stress on intricacies of working with different metals and experimental media and design concepts along with personal expression.

## ART 2551 Jewelry For Non-Art Majors ... 3

An introduction to the basic essentials of making jewelry in an art studio environment. Students will become familiar with the materials and techniques used in making jewelry. This course will not fulfill the requirements for a major in art.

## ART 2560 (previously ART 278) Jewelry II ... 3

Prerequisites: ART 2550 (ART 277)
Further exploration and refinement of metal fabrication processes as introduced in Jewelry I. Techniques may include soldering, jewelry scale casting, surface embellishment techniques, enameling techniques, hydraulic die forming and mechanism design to create jewelry and small scale objects.

## ART 2570 (previously ART 296) Topics: Advanced Jewelry ... 3

Prerequisites: ART 2560 (ART 278)
Advanced course on contract individual study basis to gain greater expertise in jewelry making.

## ART 2590 (previously ART 299A) Special Problems in Studio Art: Ceramics ... 3

Prerequisites: Permission of Instructor

## ART 2595 (previously ART 299G) Special Problems in Studio Art: Jewelry ... 3

Prerequisites: Permission of Instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2600 (previously ART 285) Sculpture I ... 3

Prerequisites: ART 1300
Introduction to sculpture materials, skills, history, and concepts. Explores methods in manipulation of traditional and experimental sculptural media, including additive and subtractive techniques. Involves studio work, research, lecture, and discussion. Emphasis as much on learning technique as understanding concepts and personal expression.

## ART 2601 Sculpture For Non-Art Majors ... 3

An introduction to the fundamental concepts of sculpture in a studio environment. Students will become familiar with the materials and techniques used in sculpture. This course will not fulfill the requirements for a major in art.

## ART 2610 (previously ART 288) Sculpture II ... 3

Prerequisites: ART 2600 (ART 285)
Emphasis on artisanship, exploration, and research to gain more sophisticated and self-motivated personal direction. Introduces skills in welding and metal fabrication as well as individual media choices. May include some metal casting.

## ART 2620 (previously ART 283) Figure Sculpture (Figurative Clay Sculpture I) ... 3

Prerequisites: ART 2600
Introduction to basics of figure sculpture using the human figure as reference for subject matter for modeling in clay over an armature. Some other ways of constructing the figure may also be investigated..

## ART 2630 (previously ART 295) Topics: Advanced Sculpture ... 3

Prerequisites: ART 2610 (ART 288) or ART 2620 (ART 283)
Advanced course on contract individual study basis to gain greater expertise in sculpture.

## ART 2690 (previously ART 299J) Special Problems in Studio Art: Sculpture ... 3

Prerequisites: Permission of instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2700 (previously ART 260) Intro to Printmaking (Printmaking I) ... 3

Prerequisites: ART 1400 (ART 110) or ART 1200 (ART 170)
Introduction to basic traditional printmaking processes. It is assumed upon entrance that students have no prior printmaking knowledge. Processes covered include: Woodcut (black and white woodcut, color woodcut), Intaglio (etching, acquaint, drypoint), and Monotype.

## ART 2701 Printmaking For Non-Art Majors .

An introduction to the fundamental concepts of printmaking in a studio environment. Students will become familiar with the materials and techniques used in printmaking. This course will not fulfill the requirements for a major in art.

## ART 2710 Relief Printmaking ... 3

Prerequisites: ART 2700
This course is designed to build upon basic relief printing processes covered in Intro to Printmaking. Processes covered include: Reductive woodcut, Multiple Block Woodcut, Wood Engraving, Monotype, and Relief Printed Collagraph.

## ART 2720 Intaglio Printmaking ... 3

Prerequisites: ART 2700
This course is designed to build upon basic intaglio processes covered in Intro to Printmaking. Processes covered include: Color Intaglio (multiple plate, a la poupee), Engraving, Soft Ground, Sugar lift, Spit Bite, and Collagraph.

Advanced course on contract individual study basis to gain greater expertise in printmaking.

## ART 2750 (previously ART 265) Fibers ... 3

Prerequisites: ART 1200 or ART 1300
In-depth exploration of the processes of creating art textiles. Draws upon contemporary and historical sources and personal imagery for expression using the fiber medium. Techniques include direct application of dyes and pigments with various resist methods, screen print processes, creating a dimensional fiber form, and exploring pattern structures. Students create within directed problems and develop abilities to verbalize ideas through conversations and critiques.

## ART 2751 Fibers For Non-Art Majors

3An introduction to the fundamental concepts of Fiber and Textile based art in a studio environment. Students will become familiar with the materials and techniques used in Fibers. This course will not fulfill the requirements for a major in art.

## ART 2790 (previously ART 299I) Special Problems in Studio Art: Printmaking ... 3

Prerequisites: Permission of instructor.
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2795 (previously ART 299E) Special Problems in Studio Art: Fibers 3

Prerequisites: Permission of Instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2800 (previously ART 220) Black \& White Photography I ... 3

Introduction to basics and principles of black and white photography. Includes mechanical and visual aspects and darkroom skills for developing and printing black and white film. Requires manual single-lens reflex camera. Cost of course supplies may exceed $\$ 200$.

## ART 2810 (previously ART 221) Digital Photography I ... 3

Basic processes and procedures of creating imagery through the use of new technology and other devices. Explores digital tools and processes as a means for photographic input, output and basic image manipulation. Fundamental computer skills are required. Mac platform preferred. Students will be responsible for their own 8-10 megapixel adjustable digital camera minimum as well as other supplies. DSLR cameras with RAW capabilities are preferred. Cost of course supplies may exceed \$200.

## ART 2820 (previously ART 224) Black \& White Photography II ... 3

Prerequisites: ART 2800 (ART 220)
Approach to photography primarily from creative visual aspect, emphasis is placed on concept development. Increases photographer's awareness of and sensitivity to visual aspects such as composition while refining mechanical skills such as exposure, developing and darkroom skills while using black \& white media. Requires manual single-lens reflex camera. Cost of course supplies may exceed $\$ 200$.

## ART 2830 (previously ART 225) Digital Photography II ... 3

Prerequisites: ART 2810 (ART 221)
Intermediate exploration of the aesthetics and techniques of digital photography including a further investigation of the constructed image, color management, asset management and output methods. Students will produce one or more portfolios of digital images. Students will be responsible for their own 8-10 megapixel adjustable digital camera minimum as well as other supplies. DSLR cameras with RAW capabilities are preferred. Cost of course supplies may exceed \$200.

## ART 2840 (previously ART 231) Photography III ... 3

Prerequisites: ART 2820 (ART 224) or ART 2830 (ART 225)
This course is a continuation in understanding black and white and or digital photography, and in understanding photographic images in general in terms of how they function as art work; with emphasis on technical constistency and sophistication in expression of ideas.

## ART 2850 (previously ART 232) Topics: Advanced Photography ... 3

Prerequisites: ART 2840 (ART 231)
Advanced course on contract individual study basis to gain greater expertise in photography.

## ART 2855 (previously ART 233) Special Topics in Photography ... 3

Prerequisites: ART 2820 (ART 224) or ART 2830 (ART 225) or permission of instructor.
Variable content covering in-depth advanced topics in technique and subject matter not covered in regular curriculum. Topics vary and may include subjects such as portrait photography and lighting, location photography: landscape and architecture, non-silver photographic processes, working with color positives, etc. Class may be repeated for credit up to three times if differenct topic is studied.

## ART 2860 Studio Lighting .. 3

## Prerequisites: ART 2810

Provides hands-on instruction in the photographic studio in the manipulation and utilization of light for the production of professional quality images. Students are taught to accurately control lighting for portraits, objects, products, etc. to create strong portfolio images. Cost of course supplies may exceed \$200.

## ART 2870 Event Photography ... 3

Prerequisites: ART 2810
Students learn to use their technical expertise, creativity and composition skills to produce and preserve images that visually tell a story or record an event. Photographic techniques and location considerations are discussed as well as the business practices essential to be successful in the profession. Cost of course supplies may exceed $\$ 200$.

## ART 2890 (previously ART 299B) Special Problems in Studio Art: Black \& White Photography ... 3

Prerequisites: Permission of Instructor.
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2895 (previously ART 299C) Special Problems in Studio Art:Digital Photography ... 3

Prerequisites: Permission of Instructor.
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2900 (previously ART 270) Illustration I ... 3

Prerequisites: ART 1400 (ART 110)
Course exploring techniques, materials and methods of illustration for commercial and fine art purposes. Projects emphasize individual creativity and concept but also emphasize working with clients.

## ART 2910 (previously ART 272) Illustration II ... 3

Prerequisites: ART 2900 (ART 270)
Continuation of Illustration I with an advanced approach. Emphasis placed on subject interpretation and individual concept and creativity using variety of art mediums.

## ART 2930 (previously ART 239) Gallery Management Internship ... 3

Prerequisites: permission from instructor
Basic processes and procedures of curating a fine art exhibition and managing exhibition space. Explore SCC's community art venue from a behind-the-scenes perspective while developing an understanding of the responsibilities of managing, funding, and maintaining exhibition space. Participation in installation and planning of SCC Gallery exhibitions. May involve field trips.

## ART 2950 (previously ART 259) Visual Arts Studio Internship ... 3

Prerequisites: Permission of Instructor
On-the-job experience in visual arts. Students may apply for an internship with artists or art-related businesses to enhance career readiness. Visual arts studio internships must be approved and sponsored by a faculty advisor.

## ART 2970 (previously ART 275) Art and Architecture Field Studies ... 1-3

Prerequisites: One of the following: ART 1001(101), 1200(170), 1300, 1400(110), 1500(150), 2750(265) 2401, 2501, 2551, 2601, 2701, 2751 2800(220), 2930(239) or Permission of Instructor

Field course covering art, architecture, and history of a region of the world involving supervised on-site field studies and coursework outlined in an individual learning agreement. Includes lectures, directed readings, writing, drawing, photography, and other creative projects as well as visits to important sites and artifacts. Students must also register for and participate in approved academic study tour, study abroad, or field experience.

## ART 2990 (previously ART 299F) Special Problems in Studio Art: Illustration ...

Prerequisites: Permission of Instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2995 (previously ART 299) Special problems in Studio Art ... 3

Prerequisites: Permission of Instructor
Advanced study in studio art discipline beyond courses appearing in this catalog. Projects predetermined through interview with instructor, completed during studio times offered in discipline.

## ART 2999 Sophomore Studio Art Seminar ... 3

Prerequisites: Upon completion of 31 to 32 credits of the requirements towards an AFA degree (3rd semester.)
A course for art majors planning to transfer to a four-year institution for a Bachelor of Fine Arts degree or a BA degree in Studio Art. This course will guide students in how to photograph their artwork and prepare their visual art portfolio for review by the transfer institutions and exhibition spaces. Opportunities and procedures in the various fields of visual art will be discussed. Other necessary skills such as artist resume writing and artist statement writing will also be undertaken.

## Biology

## BIO 095 Pre-A\&P Foundations in Science ... 1

This course provides the foundations of scientific terminology and concepts useful for success in Anatomy \& Physiology I (acceptable prerequisite for BIO 250A/250B). Topics include: scientific method, chemistry of life, cell biology, genetics, energetics, overview of human systems. This course is graded on a Pass/Fail basis. Offered online only.

## BIO 100 Introductory Biology ... 3

Introduction to biology, the science of life. Includes origin and nature of life, from simplest single-celled forms to complex plants and animals and human beings. Appreciation of diversity and unity in living world by studying form and organization of the bacteria and other cells to specialization of structures in human body. Offered online only.

## BIO 105 Essentials of Biology ... 3

Examines fundamental principles of biology. Includes organization of living things, scientific method, cell and molecular biology, genetics, ecology, evolution, and relationship between biology and society. Suitable for non-science majors.

Corequisites: Recommended (not required) BIO 106

## BIO 106 Essentials of Biology Laboratory ... 1

Emphasis on use of methodologies typical of biological studies. Compliments topics covered in BIO 105. Suitable for non-science majors.

Corequisites: BIO 105

## BIO 110 Human Biology ... 3

Survey of human body structure and function for non-science major. Study of all organ systems of the body along with current topics in human biology.

## BIO 113 Human Biology Laboratory ... 1

Use of models, specimens, and investigative activities intended to enhance study of human organism.
Corequisites: BIO 110

## BIO 120 Introduction to Ecology ... 3

Explores structure and function of ecosystems. Study of general ecological principles in context of current problems in world's ecosystems. Course includes field trips to off-campus locations. Hybrid course. (For non-science majors.)

## BIO 121 Introduction to Ecology Laboratory ...

Ecological investigations in field and laboratory settings and procedures similar to those used by ecologists to study the natural world. Investigations will complement topics covered in BIO 120. Course includes field trips to off campus locations. Requires concurrent enrollment in BIO 120.

Corequisites: BIO 120

## BIO 122 Environmental Sciences .. 3

Study of biological and physical characteristics and principles of nature. Deals with diverse topics such as ecology, endangered species, pollution, meteorology, earth studies, populations, etc. Occasional guest speakers or field trips included. (For non-science majors)

## BIO 130 Human Sex and Reproduction ... 3

Human reproduction from biological point of view. Topics include human inheritance (from chromosomes to biotechnology), human reproduction (male and female anatomy and physiology), fetal development and birth, sexually transmitted diseases (emphasis on AIDS epidemic), and evolution of sexual reproduction. (For non-science majors.)

## BIO 150 General Biology I ... 5

Prerequisites: MAT 121, One year of high school biology or equivalent with a C or better; One year of high school chemistry or equivalent with a grade of $C$ or better.

Basic principles of plant and animal biology, including cell biology, biochemistry, energetics, genetics, evolution, and ecology. Appreciation of scientific method in general and biological methodology. Lab component will emphasize the use of methodologies typical of biological studies. For science majors.

## BIO 151 General Biology II ... 5

Prerequisites: BIO 150 with a grade of C or better
Continuation of General Biology I. Emphasis on botany, zoology, animal systems, behavior, taxonomy. Lab component will feature laboratory and field activities that complement studies in lecture. For science majors.

## BIO 160 General Botany ... 4

Prerequisites: BIO 150
Introduction to diversity of plant kingdom. Topics include plant cell structure, physiology of plant cell, study of major groups of plants and their life cycles, and study of various biomes. Includes laboratory component. Spring only.

## BIO 242 Anatomy and Physiology Supplement ... 1

Supplement and reinforcement of concepts presented in BIO 250A and 250B. Strongly recommended for students who have failed or received a "W" in BIO 250A or its equivalent; recommended for all students in BIO 250A.

Corequisites: BIO 250A(240) and 250B(243)
BIO 246 Microbiology ... 4
Prerequisites: High-school biology or equivalent and high-school chemistry or equivalent with a grade of a " C " or better within the last five years.

Basic concepts of microbiology including metabolism, genetics, and inhibition of bacteria, fungi and viruses. Emphasis on human pathogens, infection, resistance, and immunity. Laboratory exercises reinforce lecture concepts and teach fundamental skills in microscopy, aseptic technique, isolation, and identification of microorganisms.

## BIO 250A (previously BIO 240) Anatomy and Physiology I ... 4 (3)

Prerequisites: High school biology or its equivalent within the last five years with a grade of $C$ or better.
Structure and function of human body, with particular attention to cell biology, skeletal system, muscular system, nervous system and endocrine system.

Corequisites: BIO 250B

## BIO 250B (previously BIO 243) Anatomy and Physiology Laboratory I ... 0

Activities to enhance study of topics covered in the lecture section (BIO 250A). Use of models, charts, and both microscopic and gross specimens to illustrate various systems.

Corequisites: BIO 250A

## BIO 251A (previously BIO 241) Anatomy and Physiology II ... 4

Prerequisites: BIO 250A (previously BIO 240) and BIO 250B (previously BIO 243) with a grade of C or better.
Continuation of study of structure and function of human body. Topics include cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, and reproduction.

Corequisites: BIO 251B (previously BIO 244)
BIO 251B (previously BIO 244) Anatomy and Physiology Laboratory II ... 0
Prerequisites: BIO 250B (previously BIO 243) with a grade of C or better, BIO 250A (previously BIO 240)
Continuation of BIO 250B (previously BIO 243). Use of laboratory activities to enhance study of human body structure and function.
Corequisites: BIO 251A (previously BIO 241)

## BIO 265 Pathophysiology ... 3

Prerequisites: BIO 250A (240), BIO 251A(241), BIO 250B(243), BIO 251B(244)
Study of mechanisms of disease conditions. Working from foundation of normal function, exploration of what can go wrong and how. Emphasis on conditions most commonly encountered by today's health professionals. Combination of lecture, discussion, and seminar.

## BIO 270 Kinesiology

Prerequisites: BIO $250 \mathrm{~A}(240) / 250 \mathrm{~B}(243)$ with a grade of C or better, and taken within the last 5 years.
Study of movement of the human body. Emphasis on elements of skeletomuscular system and how they produce movements. Examines role of nervous coordination of body movement. Combination of lecture and lab.

Corequisites: OTA 100 or permission of instructor

## BIO 280 (previously BIO 140) Nutrition Pathways ... 3

Prerequisites: $\mathrm{BIO} 250 \mathrm{~A}(240) / 250 \mathrm{~B}(243)$ with a grade of C or better, $\mathrm{BIO} 251 \mathrm{~A}(241) / 251 \mathrm{~B}(244)$ can be taken as a prerequisite or corequisite

Scientific study of the essential nutrients and their function in the body. Recommended nutrient intakes, diet assessments and planning, relationships between diet and health will also be covered.

## BIO 291 Natural History Field Studies ... 1-4 hrs

Prerequisites: 100 level biology course in the last five years or permission of instructor.
Field course covering topics in the natural history of a specific region of the world. Supervised on-site field studies and coursework in an individual learning agreement. Lectures, directed readings, writing, and other creative projects, or online/distance coursework.
Approved academic study tour, study abroad, or field experience required.

## BIO 295 Topics in Biology ... 1-4 hrs

Topics in biology presented as complete course. May be repeated for credit if the same topic is not repeated. (May require permission of the instructor)
Corequisites: BIO 297

## BIO 297 Topics in Biology Laboratory ... 1-2 hrs

Experimental component of Biology 295 if appropriate for the topic.
Corequisites: BIO 295

## Business Administration

## BUS 101 Introduction to Business .. 3

Survey course covering many facets of business; a general knowledge of the modern business environment. Review of economic, social, legal, and ethical systems affecting U.S. firms. General concepts of business organization, management, people aspects of business, together with functions of production, marketing (including international), accounting, finance, computers, and information systems.

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BUS 105 Business Ethics

Introductory survey of classical and contemporary ethical theories related to current business and computer situations and problems with an emphasis on case studies and examples (formerly BUS 250). Students may not receive credit for both BUS 105 and CPT 105.

\section*{BUS 115 Introduction to Public Relations ... 3}

Basic functions of public relations in the public and private sector. Emphasis on history, case studies and writing, including press releases, media plans and speeches. Media's role in public relations, and role in shaping and swaying public opinion. Specific jobs and emphasis areas also covered.
BUS 198 Business Administration Internship ... 1-3 hrs
Prerequisites: BUS 201. Requires prior approval of department chair or dean.
Students placed in position in an agency or in business to gain practical experience and learn specific operational technologies. BUS 201 Principles of Management ... 3
Prerequisites: BUS 101
Presents management and organizational concepts with application to realistic organizational situations. Areas covered include management theory past and present, functions of management, organizational structure (centralization/ decentralization), span of control, motivation theories and practice, together with decision making in daily operations of marketing, production, forecasting, distribution and contemporary issues. Course structured around functions of management planning, organizing, staffing, directing and controlling.

\section*{BUS 204 Total Quality Operations Management ... 3}

Examines many choices each organization makes on journey to achieving excellence. Study of exemplary organizations, their operational choices, and how those decisions lead to improved financial and market performance. Addresses key operational issues in services and manufacturing such as inventory, production methods, capacity planning, production planning, total quality management, reengineering business processes, and statistical process control. Examines qualitative and quantitative methods in operations of wellknown organizations.

\section*{BUS 206 Human Resources Management ... 3}

Covers many functions involved in personnel administration as performed by human resources department administrator and line managers. Explores aspects of human resource management: planning, recruiting, interviewing, selecting, placing, training, motivating, evaluating, rewarding, and disciplining employees. Presentation of pay systems, job evaluations, and some labor/management issues. Use of case analysis.

\section*{BUS 208 Entrepreneurship/ Small Business Management ... 3}

Study of small business and its importance in American economy. Analysis of problems of small business through use of case studies. Application of functions of management to small business environment, including personnel, finance, promotion, government relations, ethics, and insurance.

\section*{BUS 210 Organizational Behavior ... 3}

Deals with people at work in various organizational situations and how to motivate human assets to work together more effectively. Analysis of how to meet needs and goals of employees within organization while making organization productive. Covers motivation theories, communications, status and role behavior and contemporary human relations issues in firms.

\section*{BUS 220 Principles of Finance ...}

Prerequisites: BUS 101,MAT 098 or ASMNT A121.
Basics of financial analysis, forecasting, operating and financial leverage, working capital, current asset management, short-term financing, time value concepts and practices, and cost of capital equity financing, dividend policy, convertible bonds, warrants and options. Includes role of financial manager in organization.

\section*{BUS 230 Principles of Marketing ... 3}

Prerequisites: BUS 101
Introduces consumer and institutional behavior patterns and overall role of marketing in the economy. Examines marketing process and its functions, together with marketing mix (place, product, price and promotion). Presents psychological and societal motivations that translate need through demand to satisfaction. Provides means to evaluate firm's capabilities, develop marketing strategies, and introduce marketing techniques to meet objectives. Review of marketing ethics and some international aspects of marketing.

\section*{BUS 232 Advertising and Sales Promotion ...}

Introduction to theory, practice, and techniques of advertising. Consideration of role of advertising and sales promotion. General survey of kinds and purposes of media, psychological implications of typical appeals, and limited practice in promotional programming. Coordination of advertising display and publicity in context of realistic sales promotion programs.

\section*{BUS 234 Retailing ... 3}

Prerequisites: BUS 230
Fundamentals of retail store organization and management, including store location, layout, buying, pricing operation, advertising, display, and analysis associated with merchandise handling. Area retailers invited to discuss actual application of various retailing activities, e.g. buying, advertising, and inventory control.

\section*{BUS 236 Consumer Behavior}

Marketing strategy and tactics explained based on explicit or implicit beliefs about consumer behavior. Included are external influences to buying, internal influences, the consumer's buying decision process, social and ethical issues in consumer behavior. Presents information search and consumer research methods as well as ultimate consumer and industrial buyers.

\section*{BUS 238 Personal Selling ... 3}

Fundamentals of personal selling from the determination of customer needs to the close of the sale. Treats factors such as customer problems, merchandising knowledge, and personality traits of successful salespersons. Covers special selling topics and the role of the sales manager, together with motivation and compensation of the sales staff.

\section*{BUS 246 Legal Environment of Business \\ .3}

\section*{Prerequisites: BUS 101}

Introduction to general nature of law and how its meaning affects climate in which a business operates. Exploration of role of government and government's attitude toward business, antitrust legislation and enforcement, public control through taxation, regulation, competition, mergers, and commerce/trade restrictions. Covers freedom of contract and labor/management relations.

\section*{BUS 255 International Business 3}

Prerequisites: BUS 101
Survey course to develop understanding and appreciation of environments and operations of international business. The nature of international business, international environment, organizations and monetary systems, foreign environment, and management tools that deal with environmental forces.

\section*{BUS 270 E-marketing ... 3}

Examines impact of the Internet on traditional methods of marketing and related business functions. Explores existing and potential use of the Internet for marketing goods and services. Analyzes the effect of the Internet on marketing strategy and the marketing mix.

\section*{BUS 272 /CPM 230 Social Media Marketing for the Web ... 3}

Advertising method that uses social network services like e-mail, blogs, Facebook and Twitter to increase Web presence. Learn to develop and use social media to enhance search engine optimization (how search engines find your website) and engage visitors.

\section*{BUS 298 Business Administration Capstone ... 1}

This course is a culminating experience integrating all the course work taken in the Business Administration Associate of Applied Science program. This course includes individual and programmatic assessment. All Business Administration AAS degree-seeking students are required to take this capstone class in their final semester before graduating.

\section*{Business Technology}

\section*{BTC 101 Keyboarding ... 3}

Introduction to computer keyboard and development of correct techniques for keyboarding documents. Speed and accuracy exercises to develop necessary skill level. Emphasis on straight copy skills, basic keyboarding applications, and document formatting such as letters, memos, reports, and tabulation problems. Designed for both beginning typists and individuals who need to refresh keyboarding skills.

\section*{BTC 103 Microcomputer Applications ... 3}

Introduces use of business applications in word processing, spreadsheets, databases and presentations. Windows application package used for each application. (PC-based software only) Keyboarding skills recommended. Students may not receive credit for both BTC (BAS) 103 and CPT 103.

\section*{BTC 105 Proofreading and Editing Business Documents ... 3}

Emphasizes document formatting and review of basic related grammar and punctuation rules. Proofreading and editing techniques applied to business documents.

\section*{BTC 122 Skillbuilding}

\section*{Prerequisites: BTC (BAS) 101}

Improves speed and accuracy of keyboarding/ typing skills in preparation for job entry and testing. Concentration on individual goals and skill improvement.

\section*{BTC 130 Customer Service Excellence ...}

Develop fundamental principles of serving customer needs. Learn to analyze situations, develop solutions, implement and evaluate effectiveness, and train others. Covers all vital areas to help handle customers professionally, effectively, and successfully. Build good rapport with customers and associates.

\section*{BTC 131 Telephone Communication Skills ...}

Improve telephone skills to meet needs of work place and become more customer service oriented in handling of telephone communications. Techniques of scripting and organization. Practice handling variety of customers.

\section*{BTC 132 Time Management ... 1}

Time management techniques and organizational planning to improve efficiency on the job. Identify strengths and weaknesses. Develop prioritization skills and learn how and when to delegate.

\section*{BTC 135 Your Professional Image ... 1}

Review of appropriate business etiquette in today's work place. Real applications of best way to develop and maintain a professional image

\section*{BTC 136 Electronic Communication with Stakeholders ... 2}

Apply fundamental communication rules and etiquette to electronic communication with all stakeholders (employees, customers, vendors, stockholders, etc). Learn how electronic communication has changed internal and external communication, and see how social media fits into this new model.

\section*{BTC 137 Interpersonal Skills ... 1}

Develop interpersonal skills needed for today's diverse work place. Learn to make decisions using problem-solving techniques. Study different types of customers and workers and how to communicate and work successfully with each.

\section*{BTC 138 Introduction to Project Management ... 1}

Build a foundation of project management terminology and skills. learn to budget and schedule tasks while avoiding common pitfalls.

\section*{BTC 145 Business Technology Tools ... 3}

Prerequisites: Keyboarding skills.
Emphasis on the use of technology found in today's business environment. Students will enter and edit information as well as manipulate and format data using the current technology. Voice recognition, mobile computing devices, and other input methods to complete administrative tasks will be addressed.

Corequisites: BTC/BAS/CPT 103

\section*{BTC 150 Managing Personal Information - Outlook ... 1}

Learn to use Outlook effectively to maintain your personal and/or work information. Topics include: handling e-mail, organizing contacts and tasks, using notes, managing calendars, and scheduling meetings and resources.

\section*{BTC 160 Word Processing - MS Word ... 2}

Focus on learning intermediate and advanced concepts and functions of current version of MS Word. Topics include creating, editing and saving documents to intermediate and advanced functions like merges, macros, tables, wizards/templates, to multi-page documents with many special features.

Corequisites: BTC/BAS/CPT 103.

\section*{BTC 165 Presentations Using PowerPoint ... 2}

Presentation and application of beginning through advanced functions of PowerPoint. Topics include: create effective graphic presentations, organize and outline content of presentation, format text and graphics, apply tools, correctly chart/graph information, change color schemes, and create customized templates. Use of resources available for preparing presentations, including effective presentation skills.

\section*{BTC 170 Spreadsheet Applications - Excel ... 2}

Presentation and application of business functions of Excel. Topics include formulas and functions, absolute/relative cell references, templates, reports, charting/graphing, formatting, and integration of Excel and MS Word.

\section*{BTC 175 Database Applications - Access ... 2}

Presentation and application of Access functions. Topics include: plan and design tables, query data, design and generate forms and reports, establish relationships, manage multiple databases, integrate Access with other MS Office applications.

\section*{BTC 190 Planning and Design Concepts-Microsoft Publisher ... 2}

Prerequisites: BTC/BAS/CPT 103
Focus is on preparation, planning, and design of various desktop publishing documents using Microsoft Publisher. Design basics and elements of design such as planning message for target audience, consistency, proportion, balance, color choice, and unity will be emphasized.

\section*{BTC 245 Administrative Procedures ... 3}

Prerequisites: BTC (BAS) 160 with a minimum grade of C or above.
Develop understanding of procedures in today's electronic office. Review of composition, telecommunications, electronic mail, making travel and meeting arrangements, document formatting, financial statements, records management, human relations, job application procedures, and decision-making skills. Students must be available for shadowing hours in local business. Students must earn a C or above in the course in order to graduate. Hybrid course. Fall.

\section*{BTC 247 Administrative Supervision ... 3}

Prerequisites: BTC(BAS) 160 with a minimum grade of \(C\) or above.
Supervision of employees, including how to handle personnel problems, hire, terminate, and promote employees. Also, budgeting, employee evaluations, and use of decision-making skills. Students must be available for shadowing hours in local business. Students must earn a C or above in the course in order to graduate. Hybrid course. Spring

\section*{BTC 250 Business Simulations ... 3}

Prerequisites: BTC(BAS) 103, BTC(BAS) 138, BTC(BAS) 160, BTC(BAS) 165, BTC(BAS) 170, BTC(BAS) 175 with a minimum grade of \(C\) or above.

Application of all MS Office and desktop publishing skills to complete various office simulation projects. Use of critical thinking, time management, organizational skills, and integration of computer skills as performance standards. Implementation of a realistic work environment. Students must earn a C or above in the course in order to graduate. Hybrid course. Spring

\section*{BTC 290 Publishing Projects- Adobe inDesign 2}

Prerequisites: BTC(BAS) 190.
This course will reinforce planning and design concepts with a focus on preparing desktop publishing documents and marketing items on a project basis. Importance will be placed on real-world application of design basics and applying those while learn to use Adobe InDesign.

\section*{Chemistry}

\section*{CHM 101 Introduction to Chemistry ... 3}

Prerequisites: MAT 098 with a grade of " C " or better
Introduction to basic principles of chemistry, including measurements and problem-solving, atomic theory, chemical nomenclature, chemical reactions, molecular structure, properties of gases, liquids and solids, acid-base chemistry and oxidation-reduction chemistry.

Corequisites: CHM 103

\section*{CHM 103 Introduction to Chemistry Laboratory ... 1}

Hands-on course with emphasis on proper laboratory techniques and experimental activities that illustrate concepts studied in CHM 101.

Corequisites: CHM 101
CHM 106 Chemistry for Allied Health ... 4
Prerequisites: MAT 098 with a grade of "C" or better
This is a one-semester lab and lecture course providing students with basic concepts in general, organic, and biological chemistry. It will assist students in problem-solving skills and significantly emphasize the applications of chemistry to human health. This is not a general education course for the AA Degree.

CHM 115 General Chemistry I ... 5

Prerequisites: 1 year of High School Chemistry or CHM 101 or equivalent and MAT 121 with a grade of C or better.
Study of how compounds are formed and named, chemical equations, calculations and problem-solving involving elements, compounds and chemical equations including stoichiometry, thermochemistry; properties of gases, solids, solutions, and acids and bases. Experiments introduce basic lab skills and aspects of qualitative and quantitative analysis.

\section*{CHM 116 General Chemistry II ... 5}

Prerequisites: CHM 115 with a grade of C or better; or CHM 110 \& 113 with a grade of C or better; and MAT 158,160 or 162 or higher with a grade of C or better.

Continuation of Chemistry I. Includes study of chemical equilibria, acid-base chemistry, complex ions, thermodynamics, oxidationreduction reactions, nuclear chemistry, and introduction to organic chemistry. Experiments continue to introduce and improve laboratory skills and problem solving.

\section*{CHM 222 Quantitative Analysis 3}

Prerequisites: CHM 116, with a grade of C or better.
Principles and practice of quantitative chemistry including descriptive statistics; equilibria pertaining to acid-base, complexometric, redox and solubility; volumetric analysis; spectrophotometric analysis and an introduction to chromatography.

\section*{CHM 240 Organic Chemistry I ... 3}

Prerequisites: CHM 116, with a grade of C or better.
Introduction to structure, nomenclature, properties, synthesis and reactions of aliphatic and aromatic carbon compounds.
CHM 241 Organic Chemistry II ... 3
Prerequisites: CHM 240, with a grade of C or better.
Continuation of study of structure, nomenclature, properties, synthesis and reactions of aliphatic and aromatic carbon compounds with emphasis on chemistry of carbonyl compounds.

Corequisites: CHM 243

\section*{CHM 243 Organic Chemistry Laboratory ... 2}

Prerequisites: CHM 240, with a grade of C or better or equivalent.
Hands-on introduction to laboratory techniques and procedures of organic synthesis and identification.
Corequisites: CHM 241

\section*{Child Care \& Early Education}

\section*{CDC 101 Introduction to Early Childhood Education ... 3}

Overviews historical and contemporary early childhood programs and curriculum. Examines qualities and skills necessary for working effectively with young children. Surveys range of opportunities open to child care personnel in various early childhood settings. Site observations are part of course work. Fall and Spring. Summer, even years.

\section*{CDC 102 Creative Activities and Play for Young Children ... 3}

Introduces techniques and materials to foster creativity, imagination and artistic expression. It investigates the role of play in children's development. Examines teacher's role in planning and implementing process-oriented activities. Site observations are a part of the course work. Students may not receive credit for both EDU 202 and CDC 102.

\section*{CDC 103 Literacy and Literature for Young Children ... 3}

Utilizes various genres of children's literature and other materials to support emergent literacy and language development in young children. Site observations are a part of the course work.

CDC 104 Principles of Early Childhood Curriculum ... 3
Prerequisites: CDC 101, CDC 112
Investigates theory and practice of early childhood education in variety of program settings. Includes survey of program models, teaching techniques, curriculum planning and scheduling, and classroom management. Site observations are a part of the course work. Fall

Approval needed from the CDC program coordinator in order to register for this class.
Students may not receive credit for both EDU 204 and CDC 104.
Corequisites: CDC 105, CDC 109

\section*{CDC 105 Early Childhood Practicum I ... 2}

Prerequisites: CDC 101, CDC 112; permission of the program coordinator required.
Involves observation and participation, under qualified supervision, in early childhood education settings. Coordinates with course objectives from CDC 104. The practicum experience is also paired with a coordinating seminar, CDC 109. Site observations are a part of the course work.

Approval needed from the CDC program coordinator in order to register for this class.
Corequisites: CDC 104, 109

\section*{CDC 106 Experiences in Early Childhood Education ... 1-3 hrs}

This course provides for variable credit for prior professional development learning experiences related to working with young children from birth to age 8. Variable credit for prior learning experience based upon evaluation by child care program director.

\section*{CDC 107 Introduction to Young Children with Special Needs ... 3}

Introduces characteristics of individuals with exceptionalities and overviews history and educational theories related to individuals with exceptionalities, especially children. Examines impact of disabilities and other special needs on individuals, families, schools and communities. Site observations are a part of the course work. Students cannot receive credit for both EDU 207 and CDC 107.

\section*{CDC 108 Infant and Toddler Development and Curriculum ... 3}

Follows development of infants and toddlers (conception to 3 years of age). Examines theories of physical, cognitive (including language), social and emotional areas of development. Emphasis on developmentally appropriate activities, materials, room arrangement, and scheduling. Guided observation, record-keeping for assessment, and interaction with infants and toddlers. Site observations are a part of the course work. Summer, odd years.

\section*{CDC 109 Early Childhood Practicum I Seminar ... 1}

Prerequisites: CDC 101, CDC 112
Provides opportunities for discussion and collaboration among students about field experiences. it supports course objectives from CDC 105. Requires concurrent enrollment in CDC 104, 105. Permission of program coordinator is required to enroll in this course. Fall

Corequisites: CDC 104, CDC 105

\section*{CDC 112 Child Growth and Development I: Prenatal through Early Childhood ... 3}

Study of human development from conception to approximately age 6. Investigates theories related to physical, cognitive (including language), social and emotional growth and development. Examines relationship among areas of development and the connection between development and children's behaviors. Site observations are a part of the coursework.

\section*{CDC 113 Child Growth and Development II: Birth through Adolescence ... 3}

\section*{Prerequisites: CDC 112}

Exploration of human development throughout the lifespan and investigation of theories related to physical, cognitive (including language), social and emotional growth and development. Examines relationships among areas of development as well as the connection between development and behavior. Focus is also on developmental issues in childhood, adolescence and adulthood. Site observations are a part of this course work.

\section*{CDC 201 Cognitive Activities \& STEM for Young Children ... 3}

Prerequisites: CDC 112
Focus on developmentally appropriate methods and materials to enhance young children's awareness of science, technology, engineering and math concepts. Emphasizes techniques to develop observation, problem solving and thinking skills. Site observations are a part of the course work. Students may not receive credit for both CDC 201 and EDU 201.

\section*{CDC 202 Music and Movement for Young Children ... 3}

Explores music and movement activities to support perceptual, fine, and gross motor development. Overviews techniques to enhance creative movement and singing. Spring

Prerequisites: CDC 101, 104, 105, 109, 112 and permission of the program coordinator required.
Involves practical teaching experience with young children, under qualified supervision, in early childhood classroom setting. It includes lesson planning and implementation, assessment and record keeping, communicating with parents and families, and all other phases of classroom operation. Site observations are part of the course work. Permission of Program Coordinator required.

Corequisites: CDC 206, 209, 210

\section*{CDC 204 Management of Early Childhood Programs ... 3}

Emphasizes operation and management of early childhood programs including issues related to staffing, curriculum and program planning, funding, facilities, public relations, and licensing and accreditation. Site observations are a part of the course work. Spring \& Summer - even years.

\section*{CDC 205 Children, Families and Communities ... 3}

Overviews interrelationships between children, families and society. Highlights topics of home/school, communication and involvement, community resources and societal influences such as violence and divorce. Student cannot receive credit for both CDC 205 and EDU 205.

\section*{CDC 206 Early Childhood Practicum III ... 2}

Prerequisites: CDC 101, 104, 105, 109, 112 and permission of program coordinator required.
Involves comprehensive teaching experience with young children, under qualified supervision, in early childhood classroom setting. Includes lesson planning and implementation, assessment and record-keeping, communicating with parents and families, and all other phases of classroom operation. Site observations are a part of the course work.

Corequisites: CDC 203, 209, 210

\section*{CDC 207 Curriculum and Materials for Young Children with Special Needs ... 3}

\section*{Prerequisites: CDC 107}

Reviews methods and techniques for planning and adapting instruction for learners with special needs. Provides experience with observing and recording, screening and assessment instruments, and other resources for implementing individualized learning plans. Site observations are a part of the course work.

\section*{CDC 208 Nutrition, Health and Safety of Children ... 3}

Examines nutrition, health and safety factors affecting children from birth through adolescence. Topics include dietary requirements and nutrition education, health assessment, childhood illnesses and immunizations, first aid, accident prevention and child abuse recognition and intervention. Students may not receive credit for both EDU 208 and CDC 208.

\section*{CDC 209 Early Childhood Practicum II Seminar ... 1}

Prerequisites: CDC 101, 104, 105, 109, 112
This is a co-requisite seminar that supports course objectives for CDC 203 Early Childhood Practicum II. It provides opportunities for discussion and collaboration among students about field experiences.

Corequisites: CDC 203, 206, 210
CDC 210 Early Childhood Practicum III Seminar ... 1
Prerequisites: CDC 101, CDC 112, and one other CDC course.
Provides opportunities for discussion and collaboration among students about field experiences. The seminar supports course objectives from CDC 206. Permission of program coordinator is required to enroll in this course.

\section*{College Development}

\section*{COL 090 College Study Skills ...}

Develops, improves, and practices study skills critical to success in college. Skills include time management, concentration, memory, SQ4R textbook study method, note taking from both lecture and textbook, exam preparation and test taking.

\section*{COL 101 College Success Seminar ... 1}

Information and experiences to facilitate college success for freshman. Required of all first-time freshmen students taking 9 or more hours (6 hours or more in the summer semester).

\section*{COL 104 Online Information and Internet Research ... 1}

Skills needed to select and search online information sources. Focus is on strategies for searching online catalogs, indexes, and the Internet. Includes resource comparison, evaluation and citation, and types of information.

\section*{COL 110 Career Development \\ 1}

Assists in making career decisions through assessment of interests, values and abilities. Application of these traits to world of work to find career as appropriate combination of these three. In-depth exploration of several careers.

COL 299 Sophomore Portfolio Assessment1

Prerequisites: Sophomore standing.
Students will complete activities from 3 discipline areas* which will include evidence of Higher Order Thinking (HOT) and Managing Information (MI). Students may be required to complete a comprehensive standardized assessment test. The discipline areas are: Humanities, Social Science, and Multicultural/Valuing
Corequisites: Students should take this course after completing 30 hours of their 42 hour AA general education transfer block.

\section*{Communication}

\section*{COM 102 Introduction to Mass Communication 3}

Focus on different modes of mass communication including radio, television, film, video, magazines, newspapers, publishing, advertising, public relations, photography, and telecommunications. Development of media from invention to present, effects of media on society, government controls, censorship, and other issues.

\section*{COM 112 Introduction to Radio and Television Broadcasting ... 3}

Introduction to broadcasting, including history, government regulations, station operation, and program development.
COM 115 Introduction to Public Relations ... 3
Basic functions of public relations in public and private sector. Emphasis on history, case studies, and writing including press releases, media plans, and speeches. Media role in public relations, and role in shaping and swaying public opinion. Specific jobs and emphasis areas covered.

\section*{COM 120 Electronic News Gathering ... 3}

Prerequisites: COM 102
Instruction in video skills for pre-production, production, and post-production of television news. On-location, single-camera shooting will be emphasized. Includes lectures, discussions, practical applications, and evaluations.

\section*{COM 260 Video Production for the Media ... 3}

Prerequisites: COM 102
Introduction to all aspects of video production. Remote and studio television production will be covered. Hands-on experience in the use of equipment to produce video projects for the media. Consists of lectures, field assignments, in-class activities, and examinations.
COM 270 Media Literacy ... 3
Emphasis on the ability to access, analyze and evaluate media in a variety of media formats. Review of tools necessary to understand the role of the media as well as skills of inquiry necessary for citizens of a democracy. Media formats examined include journalism, advertising and political communications.

\section*{COM 290 Topics in Mass Communication} 3

Exploration of a topic selected by the department. Topics may include examination of mass communication in a variety of contexts: presidential elections, mass communication theory, mass communication effects, impact of the Internet, etc.

\section*{COM 296 Mass Communication Internship ... 3}

Prerequisites: COM 102 or consent of instructor.
Students placed in participatory position in mass media corporation or organization. Includes assignments related to internship.

\section*{Computer-Aided Drafting}

\section*{CDM 103 Introduction to CAD Systems .. 2}

Uses both AutoCAD and Cadkey software to introduce CAD. Coverage includes functions of CAD drawing, its components, creating and editing drawing, input methods, basic views, basic dimensioning, and steps needed to save and retrieve completed CAD drawings. Engineering report required.

\section*{CDM 104 CAD Systems II ... 3}

Prerequisites: CDM 103 with a grade of " C " or better.
Extends topics covered in CDM 103 and includes advanced orthographic views, tolerancing and dimensioning. Covers sketching, sectional views, auxiliary views and basic descriptive geometry. Uses AutoCAD software.

\section*{CDM 120 Descriptive Geometry ... 2}

Prerequisites: CDM 104
Analysis of basic shape descriptions using successive auxiliary views and rotations to determine true lengths, sizes and shapes, and to find solutions to problems dealing with coplanar and non-coplanar forces. Engineering report required.

\section*{CDM 205 Architectural Drafting I ... 3}

Prerequisites: CDM 104
General orientation, site work, floor plans, elevation drawings, structural information and dimensioning information, roof plans, schedules of fixtures and equipment

\section*{CDM 206 Architectural Drafting II ... 3}

Prerequisites: CDM 205
Detail drawings, sections, stairs, foundation plans, and introduction to electrical drawings, plumbing and HVAC drawings, perspectives and renderings

\section*{CDM 207 Revit Architecture I ... 3}

Prerequisites: CDM 104
Introduction to use and application of Revit software. Course includes Building Information Modeling, shared user design, and sustainable/green building features.

\section*{CDM 208 Revit Architecture II ... 3}

Prerequisites: CDM-207
Intermediate application of Revit software for commercial architectural design involving Building Information Modeling. Collaboration techniques, advanced design development tools and advanced construction documents are featured.

\section*{CDM 209 Construction Materials \\ 3}

Prerequisites: CDM 104
Use and availability of concrete, masonry, metals, wood and plastics, thermal and moisture protection, doors and windows, finishes, etc.

\section*{CDM 210 HVAC Drafting ... 3}

Prerequisites: CDM 104
Design of systems related to size and structure of buildings. Drawings for heating systems: forced air, hot water, radiant, and electrical. Air conditioning systems and drawings.

\section*{CDM 211 Structural Drafting ... 3}

Prerequisites: CDM 104
Interpretation of general plans, stress diagrams, erection diagrams and specifications. Preparation of steel details, falsework plans, foundation and masonry plans, and bills of material and bolt lists. Drawing of basic welding details.
CDM 212 Electrical/Electronic Drafting ... 3
Prerequisites: CDM 104
Includes electrical symbols and fundamentals, conduit and grounding plans, lighting plans, details of electrical equipment, electronic symbols and tables, connections diagrams, schematic block and logic diagrams, instrumentation and control drawings.
CDM 221 Solid Modeling I ... 3
Prerequisites: CDM 103
Introduction to parametric solid modeling using Solidworks software.

Intermediate parametric solid modeling using Solidworks software.

\section*{CDM 223 Geometric Dimensioning/Tolerance ... 3}

Prerequisites: CDM 104
Fundamentals and techniques, general dimensioning, practices, limit dimensions, cylindrical fits, S.I. metrics, tolerances of position and form, surface texture, profile, orientation and runout.

\section*{CDM 231 Tool Path Generation ... 3}

Prerequisites: CDM 104
Includes short history of N/C programming, cutters, speeds and feeds, sequence of operations, tool path generation for 3-axis and multiaxis machines, tooling and machine language using Mastercam program and completion of prototypes in CNC manufacturing cell.

\section*{CDM 235 Manufacturing Processes ... 3}

\section*{Prerequisites: CDM 104}

Focuses on processes used in manufacturing metal parts. Includes machining, stamping, extruding, swaging, grinding, casting, forging, roll forming, welding, electrical discharge machining (EDM) and threading. Finishing processes include anodizing, tempering, annealing, pickling, etc. Addresses overall process of manufacturing planning. Prerequisite waived with instructor consent.

\section*{CDM 251 Introduction to Piping Drafting ... 3}

\section*{Prerequisites: CDM 104}

Pneumatic/ hydraulic fundamentals and codes, kinds of pipe and specifications, piping symbols, piping schematics, plans, riser diagrams, isometrics, and details of piping.

\section*{CDM 255 Civil Drafting ... 3}

\section*{Prerequisites: CDM 104}

Drawing and interpretation of site plans and maps, calculating drainage; and drawing structural steel details, reinforcing concrete and the piping related to site plans.

\section*{CDM 265 Sustainable Design ... 3}

Prerequisites: CDM-104
Examination of sustainability and green construction design and drafting items related to residential and commercial design. Topics will include building materials, methodologies, energy production and storage, water use and waste systems. Course includes a review of LEED certification items.

CDM 270 Externship ... 3
Prerequisites: Approval of CAD/CAM department chair and meet externship requirements.
Practical work experience and structured occupational learning specific to CAD/CAM major. Provides educational experience not available in classroom or lab.
CDM 298 CAD/CAM Capstone ... 1
Culminating course experience for the CAD/CAM program.
Corequisites: Application for graduation

\section*{Computers}

\section*{CPT 103 Microcomputer Applications ... 3}

Introduces use of business applications in word processing, spreadsheets, databases, and presentations. Windows application package used for each application. (PC-based software only) Keyboarding skills recommended. (Students may not receive credit for both BAS 103 and CPT 103.)

\section*{CPT 104 Introduction to Programming for Animation and Computer Games ... 3}

Prerequisites: Take CPT-135 and CPT-165 or Permission of Instructor
The course examines the proper steps in the creation of animation and game design. It covers history of gaming, game genre, story and character development, and game management. The creation of simple games will also be examined using the GameMaker development tool.

Introductory survey of classical and contemporary ethical theories related to current business and computer situations and problems with an emphasis on case studies and examples. Course fulfills AA general education requirements. (formerly CPB 105) Students may not receive credit for both BUS 105 and CPT 105.

\section*{CPT 106 Operating Systems .. 3}

Introduction to the concepts of computer operating systems, including DOS, Linux and Windows 7. Covers the three types of interfaces: command line, menu, and graphical. Operating concepts of file, disk, and other resource management.

\section*{CPT 115 Introduction to Data Processing ... 3}

Introduction to computer systems with topics that include system components, data storage techniques, binary arithmetic, operating systems, device characteristics and programming. Course fulfills AA general education requirements.

\section*{CPT 121 Basics of Data Communications ... 3}

Understanding and appreciation of data communications from user's perspective. Overview of data communications concepts to address data communications issues in contemporary home or business environment. Online only (formerly CPC 120).

Corequisites: CPT-115

\section*{CPT 130 Introduction to UNIX Operating System ... 3}

\section*{Prerequisites: CPT 106}

Introduction to UNIX operating system. Covers essential components of operating system, concept of shell, and basic editing techniques. Includes file structures, file access, linking files, and script files.

\section*{CPT 135 Programming in Python ... 3}

Learning good problem-solving techniques using the Python programming language. Object-oriented concepts are included.

\section*{CPT 160 Mobile Apps Development ... 3}

Prerequisites: CPT-135 and CPT-165 or Instructor Permission
Developing applications for mobile devices on various platforms.

\section*{CPT 165 Computer Programming Logic ... 3}

Understanding and appreciation of computer problem solving methods. Applies knowledge of specific characteristics of computer language and coding mechanics to logical solution of given problem. Logic and programming techniques apply to any of machineoriented or high-level languages currently available.

\section*{CPT 172 FORTRAN Programming ... 3}

\section*{Prerequisites: MAT 121}

Continues development of good programming style using FORTRAN language. Emphasis is on development and use of single and multi-dimensional arrays and on development and use of subroutines and functions.

Corequisites: Recommended corequisite: CPT 165.

\section*{CPT 174 COBOL Programming I ... 3}

General orientation to concept of structured COBOL programming and the use of COBOL language features and programming techniques. Taught on IBM-compatible PC.

Corequisites: Recommended corequisite: CPT 165

\section*{CPT 175 COBOL Programming II ... 3}

Prerequisites: CPT 174
Continuation of COBOL Programming I. Introduces programs of increased complexity, using advanced features of COBOL language, including sorts, indexed files, and subroutines. Taught on IBM-compatible PC.

\section*{CPT 182 Beginning Programming in C++ ... 3}

Prerequisites: CPT 135 and CPT 165 or instructor permission
Advanced programming topics using the C language. Emphasis on data structures and file handling.
CPT 185 Programming in C\# (C Sharp) ... 3

Prerequisites: CPT-135 and CPT-165 or permission of instructor
Object-oriented approach to programming as well as the C\# programming language.

\section*{CPT 186 Advanced Programming in C++ ... 3}

Prerequisites: CPT 182
Working knowledge of object-oriented programming using C++ language. Features extensive hands-on programming development using C++ compiler on IBM-compatible system.

\section*{CPT 198 Computer Science Internship ... 1-3 hrs}

Requires prior approval of department chair or dean. Students placed in a position in business to gain practical experience and learn specific operational technologies.

\section*{CPT 200 Systems Analysis and Design} 3

Prerequisites: Take 1 group: CPT-182 \& CPT-186, CPT-280 \& CPT-282, CPT-284 \& CPT-287, CPT-240 \& CPT-260 or permission of instructor (note: two groups are better)

Orientation to the development of computer-based man-machine information systems. Study of system life cycles, development of logical systems specification, data collection techniques, human factors design and standards for documentation.

\section*{CPT 201 Introduction to Database Management ... 3}

Prerequisites: CPT 103 or Permission of Instructor
Practical foundation for the design, implementation and management of database systems. Includes the Internet's impact on how databases are designed, implemented and used (formerly CPB 201).

\section*{CPT 204 Advanced Applications ... 3}

\section*{Prerequisites: CPT 103}

Continuation of topics covered in elementary applications course. Emphasis on spreadsheet macros, functions, graphics, and database form development, modeling, and merging features using word processor (formerly CPB 101).

\section*{CPT 220 Data Integration Techniques ... 3}

Prerequisites: CPT 204
Creation and use of custom menus, forms, and other features in spreadsheet and database environments, and use of logic structures, control loops and other branching techniques. Emphasis on handling data by defining properties and by creating value trees, event trees, and data links to external data files (formerly CPB 220).

\section*{CPT 230 Advanced UNIX ... 3}

\section*{Prerequisites: CPT 130}

In-depth look at UNIX operating system and how it works. Advanced file access and programming in shell. Covers basic system administration and close look at security administration (formerly CPC 230).

\section*{CPT 240 SQL Basics ... 3}

Prerequisites: CPT 103 or Instructor Permission
Extensive hands-on activities using in-class SQL-based relational database to transform request into SQL query. How to create and test increasingly complex queries, how to build tables using data definition capabilities of SQL, how to create views for querying and manipulating data, and how to index in SQL database (formerly CPB 240). Fall

\section*{CPT 243 Intranets and E-Commerce .3}

\section*{Prerequisites: CPT 115}

Definition of E-Commerce, Intranets and Extranets. Exploration of major business opportunities, limitations, issues, and risks of all these technologies as well as how they are conducted and managed (formerly CPC 220). Online only.

\section*{CPT 245 Telephony ... 3}

\section*{Prerequisites: CPT 115}

Coverage of signaling protocols used in telephony and the convergence of the telephone network with data networks (formerly CPC 280). Online only.

CPT 246 Computer Security .. 3
Prerequisites: CPT 121
Exploration of LAN and WAN network security issues and various resolutions to the problems (formerly CPC 282). Online only.

\section*{CPT 249 Network Architecture and Protocol ... 3}

Prerequisites: CPT 121
Terminology, operating systems, network topology, computer network architecture and hardware, and introduction to network protocols. Protocols covered include block-oriented send and wait protocols and streaming protocols. Includes introduction to Internet working protocols (formerly CPC 200). Online only.

CPT 250 Database Programming ... 3
Prerequisites: CPT 135 and CPT-165 or Permission of Instructor
Special topics course about how to program in a commercially popular database language and integrating databases for the Web.
CPT 260 Oracle Programming ... 3
Prerequisites: CPT 240 or Permission of Instructor
In-depth coverage of Oracle's current Programming Language/ Structured Query Language (PL/SQL) bringing all benefits and capabilities of a high-level programming language to the database environment.

\section*{CPT 265 DB2 Programming ... 3}

Prerequisites: CPT 165, CPT 201, CPT 240
Production of application programs manipulating DB2 databases in a UNIX, Windows NT, Windows 95, or OS/2 environment. Emphasis on embedding static SQL statements and preparing programs for execution.

CPT 271 Programming in Perl ... 3
Prerequisites: CPT 130, CPT 165, CPT 201
Quick prototyping, systems utilities, software tools, database access and www programming. Perl modules and extensions greatly reduce development time for any given task. Perl scripting included. Role of Perl in bioinformatics.

CPT 280 Visual Basic.NET ... 3
Prerequisites: CPT-135 and CPT-165 or Permission of Instructor
Using Visual Basic.NET, design effective user interfaces using appropriate controls, properties and coding.
CPT 282 Advanced Visual Basic.NET ... 3
Prerequisites: CPT 280
Advanced Visual Basic.NET topics include object-oriented programming, database integration, functions, and procedures.

\section*{CPT 284 Java Programming ... 3}

Prerequisites: CPT-135 and CPT-165 or permission of instructor
This class will provide students with the opportunity to master basic fundamentals of the Java programming language, to understand Object Oriented Design (OOD) and Object Oriented Analysis (OOA).

\section*{CPT 287 Advanced Java Programming ... 3}

Prerequisites: CPT 182 or CPT 284
This class will provide students with the opportunity to master advanced programming techniques using Java programming language, to obtain a higher level understanding of Object Oriented Design (OOD), and Object Oriented Analysis (OOA).
CPM 295 Beyond HTML/Portfolios (Capstone) ... 3
Prerequisites: CPM 160
Beyond basic Web design, course focuses on responsive design (design for mobile devices), search engine optimization, analytics and implementing jQuery. Students will create a Web-based portfolio and utilize project management tools.

\section*{Computers/Multimedia}

\section*{CPM 120 Windows Multimedia 3}

Use of Windows operating system to present multimedia applications and theory to create kiosks, DVDs, presentations and Web pages with text, graphics, sound, video and animations. Emphasis on windows multimedia techniques such as application software integration, embedding sounds, graphics and videos, working with different file formats and resolutions, sound and video capture, and using various editing software for different multimedia applications. Computer literacy recommended.

\section*{CPM 160 Introduction to HTML ... 3}

Creation of Web pages using HTML scripting covering tags, frames, tables, hypertext, graphics, sound and gif animations. Advanced topics include Cascading Style Sheets and new areas of HTML. Computer literacy recommended.

\section*{CPM 170 Computer Graphics (Adobe Illustrator) ... 3}

Introduction to computer graphics software to create multimedia and presentation graphics. Emphasis on use of tools and menus to create special effects and to scale, stretch, rotate, group, and layer graphics.

\section*{CPM 190 Dynamic Programming Languages ... 3}

Prerequisites: CPT 165
Introduction to tools and skills required to build and maintain WWW server sites, using a variety of languages. Online only.
CPM 200 XML ... 3
Prerequisites: CPM 160
Creation of Web pages using XML (eXtensible Markup Language) documents including Internal and External Document Type Definitions, creation of XML schemas, creating XML namespaces for use with two different schemas, and using data types to define specific attributes and elements as well as the extraction of the XML data into other programs. Online only.

\section*{CPM 210 Digital Photo Editing (Adobe Photoshop) ... 3}

Edit and enhance digital photos with special techniques and tools using popular software. Prepare photos, backgrounds, and buttons for Web pages; restore old photos and create photo composites.

\section*{CPM 220 3D Animation ... 3}

Creation of 2-3 dimensional animation and its playback as part of multimedia demonstration. Concepts and tools involved in computer animation and graphics.

\section*{CPM 230 /BUS 272 Social Media Marketing for the Web ... 3}

Advertising method that uses social network services like e-mail, blogs, Facebook and Twitter to increase web presence. Learn to develop and use social media to enhance search engine optimization (how search engines find your website) and engage visitors.

\section*{CPM 240 Web Design (Adobe Dreamweaver) ... 3}

Introduction to Web editors and techniques used to design Web pages. Developed concepts include frames, tables, cascading style sheets, embedding java script code, and database integration. Emphasis on principles of good Web design and navigation.

\section*{CPM 250 Web Animation (Adobe Flash) ... 3}

Design and integration of graphics, text, and audio sources to create animations and Web pages for the Internet. Utilization of current Web application software.

\section*{CPM 260 Content Management Systems (CMS) ... 3}

Focus on Web-based content management systems that provide website authoring, collaboration and administration tools to create and manage website content for users with little knowledge of Web programming or markup languages.

\section*{CPM 270 Digital Video Editing (Adobe Premiere) ... 3}

Hardware and software tools to capture audio, still, and full-motion video including scanners and video capture boards. Covers techniques used to edit and play captured audio/video. Discussion of data compression methods.

\section*{CPM 280 Javascript ... 3}

\section*{Prerequisites: CPM 160}

Writing script through use of Javascript programming language to create interactivity and animation for Web pages. Online only.

\section*{CPM 290 Topics in Multimedia .. 3}

Appropriate prerequisite course(s); Instructor's permission required. Independent in-depth study on multimedia topics or software.
Topics can include Advanced PhotoShop, Advanced Illustrator, cartoon and game animation using Flash, Using Lingo With Director or Authorware incorporating a series of software packages to be presented within a portfolio.

\section*{CPM 295 Beyond HTML/Portfolios (Capstone) ... 3}

\section*{Prerequisites: CPM 160}

Beyond basic Web design, course focuses on responsive design (design for mobile devices), search engine optimization, analytics and implementing jQuery. Students will create a Web-based portfolio and utilize project management tools.

\section*{Computers/Networking}

\section*{CPC 107 A+ (Computer Repair and Maintenance) ... 5}

Preparation to meet the requirements of the A+ certification exam. How to build, configure, upgrade, and troubleshoot PCs.
Combination of lectures, demonstrations, discussions, and hands-on labs.

\section*{CPC 125 Windows Desktop Operating Systems .3}

In-depth introduction to current Windows desktop operating systems including installation, resource use, hardware devices and drivers, system performance and reliability, network protocols and services, desktop, security and troubleshooting. Emphasis on supporting end users. Combination of lectures, demonstrations, discussions and hands-on labs. Preparation for Microsoft certification.

\section*{CPC 155 Cyber Security Essentials 3}

This class focuses on prerequisite skills required for cyber security, ethical hacking, and forensics. An introduction to programming, web-design, and database query languages. Additional topics will be added as prerequisite skills change along with technology. This class is offered in a hybrid format only and will require guided self study.

\section*{CPC 160 Security Fundamentals ... 3}

Prerequisites: CPC 107 or CPC 125
Learn the fundamentals of security and prepare for the Security + certification exam. Combination of hands-on labs, lectures, and demonstrations.

\section*{CPC 161 Computer Forensics ... 3}

Prerequisites: CPC 160
Explore use of analytical and investigative techniques to identify, collect, examine and preserve evidence or electronically stored information. Combination of hands-on labs, lectures and demonstrations.

Corequisites: CPC 155

\section*{CPC 162 Ethical Hacking ... 3}

\section*{Prerequisites: CPC 160}

Determine weaknesses and vulnerabilities in target systems using the same tools and knowledge as a malicious hacker (in a lawful way) in order to increase security. Preparation for CEH certification. Combination of hand-on labs, lectures and demonstrations.

Corequisites: CPC 155

\section*{CPC 170 CCNA1 ... 5}

First course in a four-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification and the job market. Over the four-course sequence learn networking fundamentals, routing and switching protocols, router and switch configuration in the LAN and WAN, security issues and solutions, and wireless technologies. Combination of hands-on labs, lectures, and demonstrations.

\section*{CPC 171 CCNA2 ... 5}

Prerequisites: CPC 170
Second course in a four-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification and the job market. Over the four-course sequence learn networking fundamentals, routing and switching protocols, router and switch
configuration in the LAN and WAN, security issues and solutions, and wireless technologies. Combination of hands-on labs, lectures, and demonstrations.

\section*{CPC 172 CCNA3 ... 5}

\section*{Prerequisites: CPC 171}

Third course in a four-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification and the job market. Over the four-course sequence learn networking fundamentals, routing and switching protocols, router and switch configuration in the LAN and WAN, security issues and solutions, and wireless technologies. Combination of hands-on labs, lectures, and demonstrations.

CPC 173 CCNA4 ... 5
Prerequisites: CPC 172
Fourth course in a four-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification and the job market. Over the four-course sequence learn networking fundamentals, routing and switching protocols, router and switch configuration in the LAN and WAN, security issues and solutions, and wireless technologies. Combination of hands-on labs, lectures, and demonstrations.

\section*{CPC 180 Introduction to UNIX/Linux ... 3}

Introduction to UNIX/Linux, installation, users and groups, package management, permissions and general network configuration. Combination of lectures, demonstrations, discussions and hands-on labs.

\section*{CPC 202 Windows Server and Active Directory ... 5}

Prerequisites: CPC 107, CPC 125, or instructor permission.
In-depth study of the latest Windows Server operating system including installation, managing a server environment, access to resources, disaster recovery, IP addressing, name resolution, routing and remote access and network security. Combination of lectures, demonstrations, discussions and hands-on labs. Preparation for Microsoft certifications.

\section*{CPC 224 Microsoft SQL Server ... 3}

Prerequisites: CPC 202, CPC 203
Preparation to meet certification requirements to become Microsoft Certified Professional (MCP) or Microsoft Certified Systems Engineer (MCSE). How to design and implement database solution using Microsoft SQL Server. Combination of lectures, demonstrations, discussions, online assignments, and hands-on labs.

\section*{CPC 225 Microsoft Exchange Server ..} 3

Prerequisites: CPC 202
Preparation to meet certification requirements to become Microsoft Certified Professional (MCP) or Microsoft Certified Systems A. How to implement, administer, and troubleshoot information systems that incorporate Microsoft Exchange Server. Combination of lectures, demonstrations, discussions, online assignments, and hands-on labs.

CPC 240 Wireless LANs ... 5
Prerequisites: CPC 171 or CCENT certification.
Introduction to Wireless LANs. Topics include IEEE 802.11 standard, wireless radio technology, wireless topologies, access points, bridges, antennas, security, site survey preparation, troubleshooting, and emerging technologies. Combination of lectures, demonstrations, discussions, online assignments, and hands-on labs.

\section*{CPC 245 CCNA Security ... 5}

Prerequisites: CPC 171 or CCENT Certification
In-depth introduction to network security based on router firewalls and security appliances. Topics include Access Control Lists (ACLs), AAA security, intrusion detection, monitoring, and securing Virtual Private Networks (VPNs). Combination of lectures, demonstrations, discussions, online assignments, and hands-on labs. Preparation for security-related industry certifications.

\section*{CPC 246 Network Security II ... 5}

Prerequisites: CPC 245 or computer networking instructor permission.
Second course in a series of security classes providing in-depth study of network security based on firewall security devices. Topics include router and security appliance ACLs, AAA, advanced protocols and intrusion detection, failover and system maintenance, VPNs, and device management. Combination of lectures, demonstrations, discussions, online assignments, and hands-on labs. Preparation for security-related industry certifications.

\section*{CPC 247 Voice Over IP ... 5}

Prerequisites: CPC 173 or CCNA Certification.
Introduction to Voice over IP including a discussion of converged networks, gateways and trunks, and call management. Combination of lectures, demonstrations, discussions, and hands-on labs.

\section*{CPC 260 UNIX/Linux Administration \\ 3}

Prerequisites: CPC 180
Learn what a UNIX/Linux administrator needs to know to support a UNIX/Linux server. Includes DNS, DHCP, mail services, Web and SQL services, file and print sharing, backup and recovery, monitoring and optimization, and configuration management.

CPC 270 CCNP1 ... 5
Prerequisites: CPC 173 or CCNA certification
First course in a series that prepares students for CCNP ceertification. Reference Cisco System's Web site (www.cisco.com/certification) for specific competencies addressed. Combination of hands-on labs, lectures and demonstrations.

\section*{CPC 271 CCNP2 ... 5}

Prerequisites: CPC 173 or CCNA Certification
Second course in a series that prepares students for CCNP certification. Reference Cisco System's Web site (www.cisco.com/certification) for specific competencies addressed. Combination of hands-on-labs, lectures and demonstrations.

\section*{CPC 272 CCNP3 ... 5}

\section*{Prerequisites: CPC 173 or CCNA Certification}

Third course in a series that prepares students for CCNP certification. Reference Cisco System's Web site (www.cisco.com/certification) for specific competencies addressed. Combination of hands-on labs, lectures and demonstrations.

CPC 273 CCNP4 ... 5
Prerequisites: CPC 173 or CCNA Certification.
Fourth course in a series that prepares students for CCNP certification. Reference Cisco System's Web site
(www.cisco.com/certification) for specific competencies addressed. Combination of hands-on labs, lectures and demonstrations.

\section*{CPC 290 Virtualization Technologies ... 3}

Prerequisites: CPC 107
Introduction to virtualization technologies and use in current corporate environments. Heavy emphasis on VMware and other products like Hyper V. Combination of lectures, demonstrations and hands-on labs.

CPC 299 New Technologies ... 3
Prerequisites: CPC 107
Advanced IT topics including current trends and important skill sets. Combination of lectures, demonstrations and hand-on labs when appropriate.

\section*{Criminal Justice}

\section*{CRJ 101 Introduction to Victimology ...}

Introduces psychological impact incurred by crime victims. Basic crisis intervention techniques, working with and understanding special populations of victims and their needs, i.e. family violence, sexual assault victims, child victims, homicide survivors and response of criminal justice system, current laws and review of history of victim movement. Fall.

\section*{CRJ 103 Addictive Disease Concepts ... 3}

Explores addiction from historical and theoretical background to current concepts. Variety of addictive behaviors examined with special focus on psychoactive drug dependency. Fall.

Focus on treatment of alcohol and drug abuse as a continuum of processes from intervention through rehabilitation. Incorporates ways to address needs of people suffering from alcohol and drug abuse. Spring.

\section*{CRJ 110 Criminal Investigations 3}

Introductory perspective on the tactics, strategies, and techniques of criminal investigations.

\section*{CRJ 140 Introduction to Criminal Justice System \\ 3}

Overview of criminal justice system, including historical development, present status, and suggested reforms. Includes detailed descriptions of duties and functions of specific actors in system, including victim, offender, police, prosecuting and defense attorneys, courts and corrections.

\section*{CRJ 165 Introduction to Security ... 3}

Survey of security systems and techniques, security surveys, and economic factors related to security.

\section*{CRJ 170 Criminal Law and Procedure ... 3}

Analysis of substantive criminal law and criminal procedure. Specific attention given to Missouri Criminal Code and cases that interpret Missouri laws. Fall.

\section*{CRJ 171 Rules of Criminal Evidence ... 3}

Basic rules of evidence applicable to criminal and other related police duties. Examines fundamental questions of evidence and theories of proof, including hearsay, documentary proof, self-incrimination, relevance, and presumptions. Spring.

\section*{CRJ 175 Criminology ... 3}

Study of various explanations of crime: classical psychological, sociological, critical, and interactionist. Examines array of responses available to system, including punishment by incarceration and other alternatives.

\section*{CRJ 201 Criminal Justice: Politics and Policy ... 3}

Prerequisites: CRJ 140
Examination of the conflicting and converging needs and skills of social roles necessary for sound criminal justice system in society. Objectives, activities and skills of citizen, criminal justice professional, and social scientist identified and analyzed. Spring.

\section*{CRJ 202 Correctional Institutions ... 3}

Detailed examination of American correctional institutions, including roles of detainees or inmates, correctional officers, and administration. Topics include classification schemes, prison life and violence, and conflict between custody and treatment functions of institution.

\section*{CRJ 205 Juvenile Justice Systems \\ 3}

Examines justification for juvenile court system and looks at organization, functions, and jurisdiction of juvenile agencies. Specific attention given to Missouri juvenile system and court cases interpreting these laws.

\section*{CRJ 210 Crime Victimization: Policies and Procedures ... 3}

Concepts, dynamics, and policies of programs for victims of crime, including their historical development, techniques for intervention, and response of criminal justice system. Model victim witness programs evaluated for strengths, weaknesses, and needed changes. Spring.

\section*{CRJ 224 Constitutional Law ... 3}

Examines United States Constitution and relationship to American Society as a whole and criminal justice system in particular. Fall.

\section*{CRJ 230 Crisis Intervention 3}

Introduction to theories and practices related to intervening and mediating in and defusing crises, and referral of people in crises. Spring.

\section*{CRJ 240 Probation and Parole ... 3}

Historical development, relative merits and disadvantages of these programs, and analysis of their success as applied in all types of probational systems. Spring.

\section*{CRJ 250 Police Administration .3}

Analyzes organization and administration of police departments and systems, highlighting peculiar characteristics of police organizations and personnel, budgeting for police departments, control and responsibility of police departments and relation of police department to other public agencies and general principles of public administration. Fall.

\section*{CRJ 260 Police-Community Relations ... 3}

Studies development of police-community relations units, analyzes current police-community relations programs in large cities, and engages in hands-on development and observation of programs in action. General Education Skills Assessment is embedded. Spring.

\section*{CRJ 265 Internship ... 1-6 hrs}

Prerequisites: Instructor's permission (Usually students seeking an internship with SCC have attained sophomore standing, have completed at least 9 credit hours in CRJ prefix courses with a minimum of a 2.33 GPA in those courses and a 2.0 GPA overall at SCC for all courses taken. Students are expected to be free of any record of academic dishonesty or criminal record of any kind excluding minor violations such as traffic tickets. Students themselves are expected to initially contact agencies directly to apply for the internship).

Students placed in participative position in criminal justice agency.

\section*{CRJ 266 Internship II ... 1-6 hrs}

Prerequisites: CRJ 265
Students enroll in Criminal Justice Practicum a second time.

\section*{CRJ 280 Comparative Criminology and Criminal Justice ... 3}

Prerequisites: Completion of 24 credit hours of 100 level or above, prior to enrollment.
Analysis of criminal justice systems and crime in other cultures and how other cultures define and respond to criminal behavior.

\section*{CRJ 290 Special Topics in Criminal Justice ... 1-3 hrs}

Credit for individual study or selected classes in subjects such as role of women in the criminal justice system, poverty and crime, or police civil liability. Instructor's approval required.

\section*{CRJ 291 Mock Trial ... 1-3 hrs}

Clarifies working roles in legal establishment. Students portray each of courtroom principals: judge, prosecutor, defense attorney, defendant, and juror. Study hypothetical case through research and work with attorney instructors in courtroom setting. Procedures and working knowledge of judicial system. Fall.

\section*{CRJ 292 Mock Trial Competition ... 1-3 hrs}

\section*{Prerequisites: CRJ 291}

Students compete in American Mock Trial Association Regional Tournament. Spring.

\section*{CRJ 298 Criminal Justice Capstone ... 1}

Culminating experience integrating Criminal Justice Associate of Applied Science program course work. Required for Criminal Justice AAS degree-seeking students in the final semester before graduation.

\section*{Economics}

\section*{ECO 100 Survey Economics ...}

Prerequisites: One of the following must be completed: MAT 096, ASMNT A120.
Introduction to basic economic decision-making at both micro and macro levels. Overview of topics relating to aggregate economic activity and to individual economic activity of households and firms.

\section*{ECO 110 Principles of Macroeconomics ... 3}

Prerequisites: One of the following must be completed: MAT 098, ASMNT A121
Introduction to determination of aggregate measures of economic activity, price level, employment and national output. Topics include inflation, unemployment and economic growth; money and banking system; and formulation of fiscal and monetary policies in pursuit of economic stabilization.

\section*{ECO 120 Principles of Microeconomics ... 3}

Prerequisites: One of the following must be completed: MAT 098, ASMNT A121
Introduction to determination of prices in product and factor markets. Topics include individual decision-making behavior of households and firms; interactions in markets of varying degrees of competition; and effects of such markets on allocation of scarce resources and distribution of income.

Examination of nature of money and factors influencing money stock; introduction to monetary theory and policy; and impact of monetary phenomena on employment, production, prices and balance of payments.

\section*{Education}

\section*{EDU 125 Teaching Literacy Through Storytelling ... 3}

Learn to communicate through the magic of storytelling. An auditory form of learning that can enhance curricula.

\section*{EDU 201 Cognitive Activities and STEM for Young Children ... 3}

Prerequisites: CDC 112
Focus on developmentally appropriate methods and materials to enhance young children's awareness of science, technology, engineering and math concepts. Emphasizes techniques to develop observation, problem solving and thinking skills. Site observations are a part of the course work. Students may not receive credit for both EDU 201 and CDC 201.

\section*{EDU 202 Creative Activities and Play for Young Children ... 3}

Introduces techniques and materials to foster creativity, imagination and artistic expression. It investigates the role of play in children's development. Examines teacher's role in planning and implementing process-oriented activities. Site observations are a part of the course work. Students may not receive credit for both EDU 202 and CDC 102.

\section*{EDU 204 Principles of Early Childhood Education ... 3}

Prerequisites: CDC 101 and CDC 112
Investigates theory and practice of early childhood education in variety of program settings. Includes survey of program models, teaching techniques, curriculum planning and scheduling, and classroom management. Site observations are a part of the course work. Students may not receive credit for both EDU 204 and CDC 104.

\section*{EDU 205 Children, Families and Communities ... 3}

Overviews interrelationships between children, families and society. Highlights topics of home/school, communication and involvement, community resources and societal influences such as violence and divorce. Students cannot receive credit for both CDC 205 and EDU 205.

\section*{EDU 207 Introduction to Young Children with Special Needs 3}

Introduces characteristics of individuals with exceptionalities and overviews history and educational theories related to individuals with exceptionalities, especially children. Examines impact of disabilities and other special needs on individuals, families, schools and communities. Site observations are a part of the course work. Students cannot receive credit for both EDU 207 and CDC 107.

\section*{EDU 208 Nutrition, Health and Safety of Children \\ 3}

Examines nutrition, health and safety factors affecting children from birth through adolescence. Topics include dietary requirements and nutrition education, health assessment, childhood illnesses and immunizations, first aid, accident prevention and child abuse recognition and intervention. Students may not receive credit for both EDU 208 and CDC 208.

\section*{EDU 211 Foundations of Education 3}

\section*{Prerequisites: ENG 101}

Examination of the historical, philosophical, sociological, political, economic, and legal foundations of the American public education system. Nature of school environments, design, and organization of school curricula and characteristics of effective schools and instruction in grades P-12 will be explored. Educational structures, practices, and projections for the future will be studied.

\section*{EDU 220 Technology for Teachers ... 3}

Prerequisites: EDU 211 or department permission
Focus on integration of instructional technology into the P-12 classrooms. Variety of software programs, presentation technology and telecommunication tools. Concentration on social, ethical, legal and human issues surrounding the use of technology. Course fulfills A.A. general education requirement for computer literacy.

EDU 225 Literature for Children

Study of children's literature from preschool to eighth grade, with best forms of literature for children and to develop standards of judgment in selection of reading materials for children. Recommended for elementary education majors.

\section*{EDU 240 Educational Psychology ... 3}

Prerequisites: PSY 101, EDU 211 or department permission and ENG 101 or assess into ENG 102
Relation of psychological principles to teaching, learning, and assessment, and the educational practice in P-12 classrooms. Focusing on the learner and the learning process, teacher characteristics, and classroom processes that increase student motivation. Student diversity and appropriate instructional strategies for students with special needs will also be introduced.

\section*{EDU 242 Art for Children ... 3}

Prerequisites: ENG 101 or higher and EDU 211 or department permission
Experience in teaching techniques of various appropriate media of visual arts and uses in elementary and middle school curricula.

\section*{EDU 244 Physical Education for Elementary Grades ... 3}

For education majors. Understanding of child's total development with special emphasis on physical motor development. Overview of play, movement activities, teaching techniques, discipline, and working with individual differences.

\section*{EDU 246 Music for Children ... 3}

Prerequisites: EDU-211 or Department Permission
For elementary education majors with no previous musical training. Introduction to methods to teach music through singing, playing the piano and other simple instruments, and rhythmic response to music. Emphasizes creative nature of music, with introduction to materials functional in classroom setting.

\section*{EDU 250 Education of Exceptional Learners ... 3}

Prerequisites: EDU 240, EDU 211 or department permission
Introduction to exceptional learners and their education in grades \(\mathrm{P}-12\). Knowledge, skills and dispositions that will enable students to work effectively with exceptional learners in general education or special education will be covered.

\section*{EDU 252 Autism Spectrum Disorders \\ 3}

Prerequisites: EDU 211, EDU 250 or Department Permission
Focuses on a broad overview of autism spectrum disorders with particular emphasis on characteristics, definition, educational aspects and contemporary issues in the field of special education. It is designed to provide students with a firm grounding in the foundations of teaching persons with autism, methods to enhance classroom functioning and skill acquisition and expose them to recent developments in the field. Special emphasis will be given to selecting evidence-based practices and enhancing collaboration among individuals with ASD, their families and supporting professionals.

Corequisites: EDU 250

\section*{EDU 255 Social Communication and Sensory Integration ... 3}

Prerequisites: EDU 211, EDU 250 or Department Permission
Provides students with an overview of the components of communication and issues and strategies to increase an individual's communication abilities, with emphasis on visual aspects of language. Sensory systems, sensory processing and sensory motor development and the implications of sensory processing when working with students with autism spectrum disorders. It will include emphasis on strategies for team building, planning, data-based decision making and evaluation.

\section*{EDU 280 Practicum for Paraprofessionals ... 2}

Prerequisites: EDU 211, EDU 220, EDU 240, EDU 250, EDU 252, EDU 285
Culminating course for the A.A.S. for Paraprofessionals. Observation and participation in local P-12 classrooms. Investigation and discussion will relate to the profession. Students must be available to participate in local classrooms during the P-12 school day.

Corequisites: EDU 285

\section*{EDU 285 Teaching Profession with Field Experience ... 3}

Prerequisites: ENG-101, and EDU-211,EDU-220, EDU-240 with a grade of "C" or better in the EDU courses.
This course has been designed to acquaint students with the day-to-day realities of classroom life and expose them to various professional and instructional issues in order to provide a realistic understanding of the teaching profession. The SCC student will perform a variety of activities such as: providing small group instruction, tutoring individuals, assisting students with assignments, providing whole class instruction, proctoring exams, and more while under the guidance of a Pre-K-12th grade classroom teacher.

Furthermore, the course instructor from SCC observe our students in action as he/she is fulfilling their practicum experience in community classrooms.

\section*{EDU 290 Portfolio Assessment in Education ... 1}

Prerequisites: EDU 211, EDU 220, and EDU 240 with grade " C " or better.
Compilation by pre-service teachers of portfolios of observations, descriptions, and reflections upon their studies in professional education as required by the Missouri Department of Elementary and Secondary Education mid-preparation benchmarks of the MoSTEP standards. Portfolios will be presented to the four-year school to which the student transfers, and copies will be retained by the Education program as assessment evidence for accrediting bodies.

Corequisites: EDU 285

\section*{Electronics}

\section*{ETC 101 Fundamentals of Electronics ... 3}

Introductory course in electricity and electronics. Topics include a study of resistors, Ohm?s law, series and parallel circuits, voltage and current dividers, DC meters, Kirchoff?s laws, conductors and insulators, and capacitors. Emphasis is on direct current circuitry and troubleshooting. Course includes lecture material and laboratory practice. A basic understanding of algebra is necessary.

\section*{Engineering}

\section*{EGR 100 Introduction to Engineering ... 1}

Introduction to the profession of engineering within the scope of overall technical occupations. Course includes resources for major exploration (incorporating regional professional societies, guest seminars, and university transfer information). Emphasis is placed on emerging trends in field practice (globalization, computerization, nanotechnology, renewable energy, bio engineering, and contract engineering). Content focuses on distinguishing aspects of practice (advanced math/science application, planning, analysis, communication) critical to the profession.

\section*{EGR 104 Engineering Design ... 3}

Prerequisites: MAT 121
Introduction to technical project management involving team activities with project planning, physical design with CAD, data analysis, and communication. Planning topics covered include project scoping, scheduling, budgeting, decision analysis, and risk reduction. Data analysis includes basic charting/ statistics, data interpretation, and measurement science. Communication learning involves novel methods for effectiveness both with technical and non-technical audiences. A team project is involved necessitating significant team member interaction outside of class. AutoCAD, Excel, Word, and PowerPoint are learned and utilized.

\section*{EGR 170 Engineering Mechanics I-Statics ... 3}

\section*{Prerequisites: MAT-230, PHY-240}

Application of principles of mechanics to engineering problems of equilibrium. Includes resultants, equilibrium, friction, trusses, center of gravity and moment of inertia.

Corequisites: MAT-240

\section*{EGR 210 Engineering Mechanics II-Dynamics ... 3}

\section*{Prerequisites: EGR 170}

Application of principles of mechanics to engineering problems of motion and acceleration. Topics include plane motion; force, mass and acceleration; work and energy; and impulse and momentum.

\section*{EGR 220 Electrical Circuits \\ .. 3}

\section*{Prerequisites: MAT 230}

Application of advanced mathematics (calculus and differential equations) to the understanding of circuits and circuit elements. Topics include network components and properties, node voltages and mesh currents, signal models, first order circuits, and second order circuits. The final exam will be administered via the Missouri University of Science and Technology.

EGR 221 Electrical Circuits I Laboratory ...
Prerequisites: MAT 230
Laboratory to accompany Electrical Circuits I.
Corequisites: EGR 220
EGR 296 Engineering Internship ... 3
Prerequisites: EGR 100, ASMNT-INS
Participatory position placement in a local engineering firm. May require specialized training. Requires reflective paper on the experience. 12 credits in A.S. Pre-Engineering Program is required.

\section*{English}

\section*{ENG 095 Developmental Writing I ... 3}

Prerequisites: Writing Placement Score 1-2/Place in RDG 092 or higher.
Remediates basic writing weaknesses such as basic grammar and sentence structure. Focus on construction of developed paragraphs. Course is ungraded and may be repeated.

\section*{ENG 096 Developmental Writing II ... 3}

Prerequisites: Placement or ENG 095 with pass grade
Pre-college-level writing class focusing on basic writing skills. Includes review of sentence structure, grammar, punctuation, and paragraph structure. May require assignments in ACE Center. Course does not count toward most degrees. Some sections offered as ESL friendly, i.e. taught by instructor trained to work with students for whom English is not primary language. Course grade on pass (P), repeat ( \(R\) ), or fail (F) basis.

\section*{ENG 101 English Composition I ... 3}

Prerequisites: Meet 1 of the following: 1.) Assess into ENG-101; 2.) Pass ENG-096; 3.) Grade of B or better in ESL-108 and a grade of C or better in ESL-106 (or assess out of ESL-106); 4.) Grade of C or better in ESL-109 and a grade of C or better in ESL-106 (or assess out of ESL-106).

College-level writing course required for all other college-level writing classes. Emphasizes essay structure, ways of organizing information, and use of sources. Basic research skills and critical thinking skills as integral part of course.

\section*{ENG 102 English Composition II ... 3}

Prerequisites: C grade in ENG 101 or EACT27
Advanced college-level writing course emphasizing analysis and in-depth research. Critical reading and thinking skills as well as library skills are integral part of course.

\section*{ENG 115 Technical Writing ...}

\section*{Prerequisites: ENG 101}

Required course for some technical programs. Writing skills applied to technical reports and summaries. Emphasizes special language, information, and audience demands of technical subjects and audiences. Students must receive a minimum grade of ?C? in ENG 101 to register for course.

\section*{ENG 125 Business Writing ... 3}

Prerequisites: C or better in ENG 101
Required course for some business majors. Writing skills applied to various types of business communications including business correspondence. Emphasis on demands of special audiences and types of communications.

\section*{ENG 200 Book Writing Workshop ... 3}

Student should have excellent writing skills and be proficient in the English language. Skills and methods required to professionally write a fiction or nonfiction book. Students will complete the framework and a minimum of three chapters for possible submission to a publisher.
ENG 201 Introduction to Creative Writing ... 3
Exploration of various forms and processes of creative writing.

\section*{ENG 202 Creative Writing II ... 3}

A continuation of Creative Writing I with a focus on publication of works through both a review of submission procedures for periodical publications and publishers and production of a literary magazine. Writing for this class will be interpretive in nature.

\section*{ENG 203 Self-Publishing Workshop ... 3}

From manuscript preparation to media marketing, presentation of how to publish books for bookstore shelves or for family history. Guest speakers enhance course with expertise in industry. Instructor is published professional writer.

\section*{ENG 206 Fiction and Nonfiction Writing ... 3}

Prerequisites: ENG 201 or permission of instructor
Advanced creative writing with emphasis on guided editing and revision of narrative forms including essay, fiction, and creative nonfiction.

\section*{ENG 207 Poetry Writing 3}

Prerequisites: ENG 201 or permission of instructor
Advanced poetry writing with emphasis on open discussion of student work and individualized critique by instructor and peers.

\section*{ENG 208 Writing for Stage and Screen ... 3}

Prerequisites: ENG 201 or Permission of Instructor
Advanced drama and screenplay writing with emphasis on open discussion of student work and individualized critique by instructor and peers. Additional emphasis on formatting and industry expectations.

\section*{ENG 249 Editing the Literary Publication ... 1}

By serving as assistant readers for a literary journal, students will learn the industry practices and standards of literary publishing by reading and evaluating work submitted by writers and assisting in design and production. Note: Completion of ENG 201 recommended.

\section*{ENG 299 Creative Writing Portfolio ... 1}

Prerequisites: ENG 201 and Instructor Permission
As a culmination of creative writing studies, students will work one-on-one with the instructor to create a portfolio of polished manuscripts. Required materials will be determined by the instructor.

\section*{English as a Second Language}

\section*{ESL 100 SCC Success and Skills for Non-Native Speakers} 3

Advanced instruction for non-native speaking students regarding key strategies and skills needed to be successful in an American college, including listening, speaking, note taking, test taking, time management and basic written communication. Student must take the Compass ESL test.

Corequisites: Placement in ESL 104(RDG 104), ESL 107(101) or equivalent skill level, ESL 199(unless a student has previously attended a semester at a U.S. college and has take an equivalent course or the student has been a resident for more than two years).

\section*{ESL 103 Pronunciation, Communication, and Listening for Non-Native Speakers .. 4}

Instruction in pronunciation for non-native speakers. By learning the American style of intonation, rhythm/speech production and syllable stress, students will be better understood and more articulate and expressive. Small group and individual communication activities will focus on speaking and listening. Open to non-native speakers of an intermediate level or above. Student must take the Compass ESL test.

Corequisites: ESL 100, ESL 104, Suggested co-requisite: ESL 107 (101) or equivalent skill level (not required).

\section*{ESL 104 (previously RDG 104) College Reading for Non-Native Speakers .4}

Directed practice in college reading skills emphasizing vocabulary, comprehension, critical thinking, reading efficiency and reading across the curriculum for non-native speaking students. Student must take the Compass ESL test. Student may not receive credit for both RDG 104 and ESL 104.

Corequisites: ESL 100, ESL 103, and suggested corequisite of ESL 107.

Prerequisites: ESL 103/SPE 100 or equivalent skill level, ESL 104 with a minimum grade of C
This course will include both verbal and nonverbal communication, both small group and public speaking, with three or four graded oral presentations. This course is designed to build speaking and listening skills for non-native speakers who have had some fluency instruction in speaking English, but need guided practice in refining conversation, making presentations and listening in a variety of situations. Other topics to be discussed include self-concept, others' perceptions, and the importance of being able to communicate in a variety of situations. Because this class is aimed at international students and non-native speakers, it will definitely include readings, communication, films and conversation about international and multicultural issues. Student must take the Compass ESL test.

Corequisites: ESL 106, and a suggested Corequisite ESL 108

\section*{ESL 106 (previously RDG 106) Advanced College Reading for Non-Native Speakers ... 3}

Prerequisites: Complete ESL 103, ESL 104 (RDG 104) with a grade of C or better and ESL 100
Directed practice in advanced college reading skills emphasizing discipline specific vocabulary, advanced comprehension, higher level critical thinking skills, improved reading efficiency and reading across the curriculum for second-language students. Student must take the Compass ESL test. Student may not receive credit for both RDG 106 and ESL 106.

Corequisites: ESL 100, ESL 105 and the suggested corequisites of ESL 108

\section*{ESL 107 (previously ESL 101) Intensive Grammar Review for Non-Native Speakers ... 4}

College-level review of grammar and vocabulary for ESL students, emphasizing target grammar concepts, sentences and paragraph structure, vocabulary, idioms and reading skills. Student must take Compass ESL test.

Corequisites: ESL 100, ESL 103 and suggested corequisite of ESL 104

\section*{ESL 108 (previously ESL 102) Intermediate Composition for Non-Native Speakers \\ 3}

Prerequisites: ESL-107 (ESL-101), minimum grade of C, ESL-104 (RDG-104) or equivalent, ESL-100
Advanced instruction for non-native-speaking students in developing college level writing skills in English. Students will work on essential composition skills, including sentence, paragraph, and essay skills, as well as advanced grammar skills. Students will also be required to read, discuss and analyze short essays and selections as the foundation of discussion and writing.

Corequisites: ESL 100, ESL 105, and the suggested corequisite of ESL 106

\section*{ESL 109 Research Writing for Non-Native Speakers ... 3}

Prerequisites: ESL 105, 106, 108 (ESL 105 can be waived with Program Coordinator approval)
Students will build skills in composition with a focus in skills necessary for writing research papers: familiarity with using the library, online databases, integrating research into essays, MLA form, while advancing reading skills, grammar, and sentence structure. Reading and writing assignments will be enhanced with classroom discussion, peer editing, and conferencing.

\section*{ESL 120 Success in Health Care Careers for Non-Native Speakers 3}

Prerequisites: ESL 105 or equivalent skill level (permission of coordinator/instructor) and ESL(RDG)106
For non-native speakers entering health care programs in American colleges. Includes communicating in health care facilities, reading health care textbooks, medical records, and professional literature, learning in labs and clinicals, medical terminology and culture in American health care.

Corequisites: ESL 108(102)

\section*{ESL 199 Study of U.S. Culture and Community ... 1}

Prerequisites: Students must take the ESL assessments prior to entry unless this course is the only course they will be taking.
This course will increase students' awareness of cultural, socio-economic and life style differences between the United States and other countries, as well as provide ample opportunity for non-native speakers to practice speaking, listening, reading and writing. Students will also learn more about the various regions and cultural-ethnic groups in this country. Students will learn new vocabulary and idioms, make an oral presentation, and write a short paper by the finish of the class.

Corequisites: ESL 100 ( co-requisite may be waived in some cases)

\section*{ESL 299 ESL Conversation and Current Events ...}

Prerequisites: ESL 100, 103, 104, 107 or equivalent skill level
Conversation development based on current events, cultural issues and academic concerns. Vocabulary, spoken grammar skills and listening comprehension, will be emphasized.

\section*{French}

\section*{FRN 101 French Language and Culture I ... 4}

Beginning French course that presents basic language skills of speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Includes culture unit on Paris. Opportunity provided for audio-lingual practice outside of class.

\section*{FRN 102 French Language and Culture II ... 4}

Prerequisites: FRN 101 or 1 to 1 1/2 years minimum high school language study
Continuation of French 101, including culture unit on France.

\section*{FRN 190 Topics in French Language and Culture ... 1-3}

Prerequisites: Dependent on topic.
Exploration of special topics and/or activities in 100 level French language and culture. Prerequisite and corequisite dependent on topic.
Corequisites: Dependent on topic.

\section*{FRN 195 French Language and Civilization ... 1-9 hrs}

Involves travel and/or study in Francophone or French culture area. May have prerequisites and may be repeated for credit. Will not satisfy General Education requirements.

\section*{FRN 201 French Language and Culture III ... 4}

Prerequisites: FRN 102 or \(11 / 2\) to 2 years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended

Follow up to French 102. Provides expanded opportunities for listening to, speaking, reading, and writing French. Continues exploration of culture, with emphasis on Francophone world. Emphasis remains on linguistic functioning in real situations.

\section*{FRN 202 French Conversation and Composition ... 4}

Prerequisites: FRN 201 or 2 years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Intensive one-semester course focusing on conversational skills, grammar review, and composition. Exploration of role of French in North America.

\section*{FRN 210 Introduction to French Cinema ... 3}

Study of the history and artistic elements of French cinema through critical examination of directors, themes, and techniques. Lectures in English with films in French with English subtitles. French students must complete selected assignments in French. Credit for both FRN 210 and GLC 210 not allowed.
FRN 215 Reading in French ... 3
Prerequisites: FRN 201 or two years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Reading and discussion of various short selections and at least one complete work in the original French. Reading strategies specific to French language, including vocabulary building, reading for comprehension, and use of literary tenses.
FRN 220 French Culture and Civilization
3
Prerequisites: One of the following must be completed: FRN 201, FRN 202, FRN 215, or three to four years high school language study. A grade of \(C\) or better in the prerequisite course is recommended

Survey of history of French civilization and influence throughout world, with emphasis on culture of present-day France and Quebec. Exercises and activities to practice and improve French language skills. (Taught in French.)

\section*{FRN 290 Topics in Intermediate French Language and Culture ... 1-6 hrs}

Exploration of special topics in 200 level French language and culture. Prerequisite and corequisite dependant on topic.

\section*{GEO 100 Principles of Geography ...}

Covers the major areas of geographic study, both physical and cultural, and how each is distributed globally. Promotes understanding of a multicultural world and the differing values held by people throughout that world.

\section*{GEO 101 Geography: The Eastern World ... 3}

Survey of Asia, Africa, the Middle East, Australia, and Pacific World. Emphasis on topographical, physical, human and cultural factors. GEO 102 Geography: The Western World ... 3
Survey of the continents of Europe, North America, and South America. Emphasis on topographical, physical, human and cultural factors.

\section*{GEO 110 Geography for Educators ... 3}

Prerequisites: Must be a declared Education major or completed EDU 210
Review of National Geography Standards, the DESE Common Core Standards for geographic studies, and the general education assessment review topics for the geographic area of social sciences, broken into three grade levels (fourth, eighth and 12th). Review which geographic concepts should be taught at which age and with what level of complexity. Major geographic areas will be included: maps and mapping techniques; cultural differences; political boundaries; global economic variations; urban design and purpose; population distribution; climate; environmental issues including the relationships between humans and the earth; natural resource distribution; topography; geomorphology; research and presentation methods.

Corequisites: or enrolled in EDU 210

\section*{GEO 115 Geography of North America ... 3}

Survey of physical, topographical, economic, and cultural factors of United States and Canada
GEO 120 Introduction to GIS (Geographic Information Systems) ... 3
Introduction to the concepts and experiences in Geographic Information Systems (GIS). Examines how to manipulate and analyze spatial data with exploration of practical uses of GIS. Includes using GIS technology and software through hands-on exercises and projects to solve real-world problems. Focus on developing skills in the use of visual maps and written communication in GIS.

\section*{GEO 220 GIS Internship ... 1-3 hrs}

Prerequisites: GEO 120 and permission of instructor.
Application of geographic technique and information learned in GIS class through work force experience
GEO 221 GIS Internship II ... 1-3 hrs
Prerequisites: GEO 220 and permission of instructor.
Application of advanced geographic techniques and information learned in GIS class through workforce experience.

\section*{GEO 222 GIS Internship III ... 1-3 hrs}

Prerequisites: GEO 221 and permission of instructor.
Application of advanced geographic techniques and information learned in GIS class through workforce experience.
GEO 225 Advanced GIS ... 3
Prerequisites: GEO 120 or permission of instructor.
Exploration of increasingly complex geographic concepts using computer and analytical methods to solve spatial problems Sophisticated GIS technology used to find and explain spatial patterns. ESRI products and GPS technology used to create data and maps.

\section*{GEO 299 Topics in Geography \\ .. 3}

Prerequisites: Instructor's permission.
Exploration of topic selected by department. Introduction to research techniques and seminar approach as integral part of scholarship.

\section*{German}

\section*{GRM 101 German Language and Culture I ... 4}

Beginning German course that presents basic language skills of speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Opportunity provided for audio-lingual practice outside of class.

Prerequisites: GRM 101 or 1 to 1 1/2 years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Continuation of German 101.

\section*{GRM 190 Topics in German Language and Culture ... 1-3 hrs}

Prerequisites: Dependant on topic.
Exploration of special topics and/or activities in German language and culture.
GRM 195 German Language and Civilization Experience ... 1-9 hrs
Involves travel and/or study in German speaking or German culture area. May have prerequisites and may be repeated for credit. Will not satisfy general education requirements.
GRM 201 German Language and Culture III ... 4
Prerequisites: GRM 102 or \(11 / 2\) to 2 years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Intensive course with emphasis on conversational proficiency. Grammar review and expansion. Variety of literary and cultural readings used for vocabulary building and as basis for classroom discussion. Opportunity provided for audio-lingual practice outside of class.

\section*{GRM 202 German Conversation and Composition ... 4}

Prerequisites: GRM 201 or two years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Continuation and completion of materials presented in German 201.
GRM 215 Reading in German ... 3
Prerequisites: GRM 201 or two years minimum high school language study. A grade of C or better in the prerequisite course is recommended.

Reading and discussion of short selections and at least one complete work in the original German. Exploration of reading strategies specific to German language, including vocabulary building, reading for comprehension, and the use of literary tenses. Summer.

\section*{GRM 290 Topics in Intermediate German Language and Culture ... 1-3 hrs}

Prerequisites: Dependant on topic.
Exploration of special topics in 200 level German language and culture. Prerequisite and corequisite dependant on topic.
Corequisites: Dependant on topic.

\section*{Global Culture}

\section*{GLC 105 Family History Research Practicum ... 1}

Research trip to major genealogical collection. Introduction to library research for the family historian, including research organization, trip planning, conducting actual on-site research, and post-trip follow-up and analysis. Emphasis on historical research method, patterns of social and cultural identity, and migration.

\section*{GLC 133 Cultures of Central America and the Caribbean ... 1-3 hrs}

Explores cultures of Central America and the Caribbean Basin in the context of a study tour (or study abroad) in one or more locations in that region of the world. Investigates cultural characteristics and values and compares and contrasts the nature of diverse cultures. Explores biases and cultural influences that affect a person?s perception of these cultures.

\section*{GLC 135 Cultures of the Amazon and Andes ... 1-3 hrs}

Explores the cultures of the upper Amazon and the Andes in the context of study tour to Peru. Investigates questions related to cultural characteristics and values with comparison and contrast of the nature of diverse cultures. Provides opportunities to understand biases and cultural influences that affect perceptions of Amazonian and Andean cultures. Specific course objectives, strategies, and evaluation procedures outlined in a learning agreement with the instructor. Summer.

\section*{GLC 140 Celtic History and Contemporary Culture ... 1-3 hrs}

Field course with focus on Celtic political and cultural history from prehistoric to modern times. Experiential approach that combines study tours of various Celtic sites with readings, films, writing assignments, and/or other activities. Specific course objectives, strategies, and evaluation procedures defined in individual learning agreement with the instructor.

\section*{GLC 145 The Theater in London ... 1}

Immersion trip into the theater in London, England, through play performances, museum visits, backstage tours, and lectures and discussions led by experts in theatrical arts and crafts to introduce the best English-speaking theater in the world.

\section*{GLC 155 Central European History and Cultures ... 1-3 hrs}

Field course with focus on European political and cultural history. Exploration of history and cultures in context of study tour to Central Europe. Among cultural issues deals with question of what is ?Europe.? Specific course objectives, strategies, and evaluation procedures outlined in a learning agreement with the instructor.

\section*{GLC 170 African Culture ... 1-3 hrs}

Field course with a focus on contemporary culture in a specific region of the African continent. Experiential approach that combines study tours of various African sites with readings, films, writing assignments, and other activities. Specific course objectives, strategies, and evaluation procedures outlined in learning agreement with the instructor.
GLC 180 Australian Culture ... 1-3 hrs
Field course with a focus on contemporary culture in a specific region of the Australian continents. Experiential approach combining study tours of various Australian sites with readings, films, writing assignments, and other activities. Specific course objectives, strategies, and evaluation procedures defined in individual learning agreement with the instructor.

\section*{GLC 210 Introduction to French Cinema ... 3}

Study of the history and artistic elements of French cinema through critical examination of directors, themes, and techniques. Lectures in English with films in French with English subtitles. French students must complete selected assignments in French. Credit for both GLC 210 and FRN 210 not allowed.

\section*{GLC 215 Intercultural Communication ... 3}

Explores issues related to intercultural communication process. Considers important role of context (social, cultural, and historical) in intercultural interactions. Topics include stereotyping, prejudice, ethnocentrism, social class and religious identities, folk culture, power, and intercultural conflict.

\section*{GLC 290 Special Topics in Global Culture ... 3}

Prerequisites: Permission of instructor
Exploration of a humanities-based global topic selected by department. Global events, current or historical information, and geographical knowledge will be included.

\section*{Global Studies}

\section*{GLS 101 Introduction to Global Studies ... 3}

Introductory course to develop global awareness and exposure to different cultures. Provides interdisciplinary approach to international and intercultural issues.

\section*{GLS 290 Special Topics in Global Studies ... 3}

\section*{Prerequisites: Permission of instructor.}

Exploration of a non-humanities-based global topic selected by department. Global events, current or historical information, and geographical knowledge will be included.

\section*{Health Information Management}

\section*{HIM 110 (previously HIT 110) Medical Terminology ... 3}

Introduction to medical terminology focusing on building anatomical and pathophysiologic terms through identification and interpretation of Latin and Greek roots, prefixes, and suffixes. Pronunciation, spelling, and transcribing basic terms relating to body systems, medical specialties, and common diseases.

\section*{HIM 115 (previously HIT 115) Pharmacology and Diagnostic Procedures ... 3}

Prerequisites: HIM(HIT) 110
The language of medical specialties, diagnostic modalities, and body systems. Emphasis on word analysis, pronunciation, spelling and commonly prescribed drugs.

HIM 120 (previously HIT 120) Health Care Data
Prerequisites: Acceptance into HIM (HIT) Program.

Introduction to health information management including health care delivery systems; health information management profession; health care data, collection, quality, access and retention.

Corequisites: HIM (HIT) 110, HIM (HIT) 121.
HIM 121 (previously HIT 121) Health Care Data Laboratory ... 0
Prerequisites: HIM (HIT) 120.
Special projects, guest speakers, and field trips to reinforce principles taught in Health Care Data lecture.
HIM 125 (previously HIT 125) Health Care Technologies ... 3
Prerequisites: HIM(HIT) 120, HIM(HIT) 121, ENG 101, BAS/CPT 103.
Continuation of HIM (HIT) 120 with emphasis on indexes and registries, computer-based patient record, and health information systems.

Corequisites: HIM(HIT) 115, HIM(HIT) 126, HIM(HIT) 128, HIM(HIT) 150.
HIM 126 (previously HIT 126) Heath Care Technology Laboratory ... 0
Prerequisites: HIM(HIT) 120,HIM (HIT) 121, ENG 101, BAS/CPT 103.
Special projects, guest speakers, and field trips to reinforce principles taught in Health Care Technologies lecture.
Corequisites: HIM(HIT) 125, HIM(HIT) 128
HIM 128 (previously HIT 128) Electronic Health Records ... 1
In-depth study of Electronic Health Record system development life cycle.
Corequisites: HIM(HIT) 115, HUM (HIT) 125, HIM (HIT) 126, HIM(HIT) 150

\section*{HIM 129 Data Presentation 1}

This course is a continuation of Healthcare Data Analysis, focusing on data presentation.

\section*{HIM 140 Anatomy \& Physiology for HIM ... 5}

Prerequisites: High School Biology or BIO 095
Foundation for the normal structure and function of human anatomy systems, focusing on the relationships between systems for students in Health Information Management and allied health programs. Fundamentals include anatomical and physiological terminology and homeostatic mechanisms. Note: This course does not meet the requirements for biology or nursing majors.

\section*{HIM 150 (previously HIT 150) Directed Practicum ... 1}

Prerequisites: HIM(HIT) 120, HIM(HIT) 121.
Introduction to medical records department in variety of hospitals and alternative settings.
Corequisites: HIM(HIT) 125, HIM(HIT) 126.

\section*{HIM 220 (previously HIT 220) Nosology ... 3}

Prerequisites: HIM(HIT) 110, HIM(HIT) 115, BIO 240, BIO 241, BIO 243, BIO 244.
Study of classification systems with major emphasis on inpatient coding using ICD-10-CM and reimbursement methodologies, specifically DRGs.

Corequisites: HIM(HIT) 221, BIO 265
HIM 221 (previously HIT 221) Nosology Laboratory ... 0
Prerequisites: HIM(HIT) 110, HIM(HIT) 115, BIO 240, BIO 241, BIO 243, BIO 244
Special projects to reinforce principles taught in Nosology lecture.
Corequisites: BIO 265.
HIM 230 Healthcare Data Analysis .3

Techniques to extract, analyze, and interpret healthcare data from the electronic health record and public data sources using database querying and data mining techniques.Methods covered will include Access relational databases, Excel spreadsheets, pivot tables, and SQL queries.

\author{
HIM 238 (previously HIT 238) Healthcare Legal \& Ethical Issues \\ 3
}

Prerequisites: HIM(HIT) 120, HIM(HIT) 121, HIM(HIT) 125, HIM(HIT) 126,HIM (HIT) 128
Study legal and ethical issues in the health care field focusing on procedures involved in court disclosure of medical records, laws pertaining to release of information from medical records, and medical record requirements for accrediting, approving, licensing and certifying agencies. Learn laws and regulations governing preparation and use of medical records, ethical practice standards, fraud and abuse, and other medical/legal issues.

HIM 241 (previously HIT 241) Health Care Statistics \& Financial Management ... 2
Prerequisites: HIM(HIT) 120, HIM(HIT) 121, HIM(HIT) 125, HIM(HIT) 126, must assess into MAT 121 or have earned a C or higher in MAT 098

In-depth study of hospital statistics, sources, definitions, collection, and reporting of data. Overview of financial management and budgeting processes.

Corequisites: HIM(HIT) 243
HIM 243 (previously HIT 243) Quality Management and Performance Improvement ... 3
Prerequisites: HIM(HIT) 220, HIM(HIT) 221, HIM(HIT) 238
A basic overview of quality performance improvement processes, function, applications, and utilization review.
Corequisites: HIM(HIT) 241

\section*{HIM 250 (previously HIT 250) Applied Practicum ... 3}

Prerequisites: HIM(HIT) 150
Advanced student practice emphasizing targeted skill sets and building skills applied in a specific health care setting. Program capstone experiences included.

\section*{HIM 260 (previously HIT 260) Health Information Management Seminar ... 2}

Prerequisites: HIM(HIT) 120, HIM(HIT) 121, HIM(HIT) 125, HIM(HIT) 126
Principles of supervisory management applied to a Health Information Management environment, including: team work and leadership, staffing, training, performance and productivity monitoring, work process design, policies and procedures, and budgeting.

HIM 270 (previously HIT 270) CPT Coding ... 2 (will change to 3 credits fall 2016)
Prerequisites: HIM(HIT) 220, HIM(HIT) 221
Outpatient coding guidelines and reimbursement with major emphasis on CPT coding.
Corequisites: HIM(HIT) 271

\section*{HIM 271 (previously HIT 271) CPT Coding Laboratory ... 0}

Prerequisites: HIM(HIT) 220, HIM(HIT) 221
Application of outpatient coding guidelines and reimbursement with major emphasis on CPT coding, to reinforce principles taught in lecture component, HIM(HIT) 270.

Corequisites: HIM(HIT) 270
HIM 280 (previously HIT 280) Healthcare Billing and Reimbursement Issues ... 2
Prerequisites: HIM(HIT) 220, HIM(HIT) 221
Healthcare billing and reimbursement issues will be covered. Included: payor categories, APCs and other prospective payment systems, the revenue cycle, chargemaster, RBRVS, regulatory guidelines, billing processes, etc.

Corequisites: HIM(HIT) 270, HIM(HIT) 271
HIM 290 Advanced Coding ... 3
Prerequisites: HIM(HIT) 220, HIM(HIT) 221

This course is a continuation of \(\mathrm{HIM}(\mathrm{HIT}) 220 / 221\), focusing on assigning diagnosis and procedural codes from actual patient scenarios and determining the validity of CAC assigned codes.

Corequisites: HIM(HIT) 291, HIM(HIT) 270, HIM(HIT) 271
HIM 291 Advanced Coding Laboratory ... 0
Prerequisites: HIM(HIT) 220, HIM(HIT) 221
Application of coding guidelines with major emphasis on actual case scenarios, to reinforce principles and cases from HIM 290.
Corequisites: HIM 290, HIM(HIT) 270, HIM(HIT) 271

Health Information Technology

\section*{History}

\section*{HIS 101 U.S. History to 1877 ... 3}

Survey of historical, cultural, political, economic, and institutional forces and events that shaped United States history through period of Reconstruction. HIS 101 complies with provisions of Section 170.011 RsMo.

\section*{HIS 102 U.S. History Since 1877 ... 3}

Survey of the historical, cultural, political, economic, and institutional forces and events that shaped United States history from 1877 to present. HIS 102 complies with provisions of Section 170.011 RsMo.

\section*{HIS 105 Family History Research Practicum ... 1}

Research trip to major genealogical collection. Introduction to library research for the family historian, including research organization, trip planning, conducting actual on-site research, and post-trip follow-up and analysis. Emphasis on historical research method, patterns of social and cultural identity, and migration.

\section*{HIS 115 U.S. History Since 1945 ... 3}

Survey of United States from end of WWII to present. Special attention placed on historical, political, social, and cultural forces that have influenced the nation. Covers constitutional and judicial changes since 1945. HIS 115 complies with provisions of Section 170.011 RsMo.
HIS 145 Western Civilization: Ancient and Medieval Heritage ... 3
Introduction to ancient civilizations of Eastern Mediterranean, classical civilizations of Greece, Rome, and Western European society up to the Renaissance.

\section*{HIS 146 Western Civilizations, Modern European Heritage ... 3}

Beginning with Renaissance, survey of history of Western civilization through post-WWII period.

\section*{HIS 160 Native American History ... 3}

Introduction and survey of Native American History from prehistoric to the present. Attention placed on tribal histories and their social and political relationships with various European powers and the United States.
HIS 202 Southwestern Asia: The Islamic World \& India ... 3
Survey of social, cultural and political history of the Middle East and India.
HIS 203 Eastern Asia: China and the Pacific Rim ... 3
Survey of social, cultural and political history of East Asia and South Asia.

\section*{HIS 230 Film as History ... 3}

Selected historical topics discussed against how film has presented them for general audiences. View at least six feature films representing historical issues and through required readings, presentations, and discussions, evaluate and critique the fact or fiction. HIS 240 Europe Since 1914 .3

Beginning with events leading up to WWI, survey of political, economic, and social history of Europe. Special attention given to Russian Revolution, Soviet State, Nazi Germany and collapse of the Soviet Empire in the 1990s.
HIS 270 History of Missouri ... 3

Emphasis on events in Missouri as a way to understand the development of America. Covers national trends and problems such as immigration, westward expansion, industrialization, and racial issues from the perspective of impact on Missouri. Examination of prominent Missourians is included. This course complies with provisions of Section 170.011 RsMo.

\section*{HIS 280 Modern British History \\ 3}

Introduction to political/social life in modern Britain: social stratification, the historic evolution of the political infrastructure, and dealing with published materials on the historical context of British social and political issues.

\section*{HIS 296 History Internship ... 3}

Prerequisites: Approval from the history department chair. In addition, one of the following must be completed: HIS 101, HIS 102.
Students placed in participatory position in a government agency, museum/archives, or community organization. Requires research paper relating to some aspect of the internship.

\section*{HIS 299 Topics in History ... 3}

Prerequisites: Instructor's permission.
Exploration of topic selected by the department. Introduction to historical research techniques and seminar approach as integral part of scholarship.

\section*{Honors}

\section*{HON 100 Inquiries in Composition and History ... 3}

Prerequisites: Admission to the Honors Program.
Interdisciplinary Honors course dealing with topics in English and History. Students will explore connections between the disciplines of English and History, while meeting the requirements and objectives of an English 102 or History 102. Topics will vary.

\section*{HON 101 Inquiries in English and History \\ . 3}

Prerequisites: Admission to the Honors Program
Interdisciplinary Honors course dealing with topics in English and History. Students will explore connections between the disciplines of English and History. Topics will vary.

\section*{Human Services}

\section*{HMS 100 Introduction to Human Services} 3

Survey introduction to human and community needs and to concepts of helping profession. Examination of community resources, relationship of agencies and bureaucracies to total community, and worker's role and responsibility in helping profession.

\section*{HMS 101 Human Services: Theories and Skills ... 3}

Overview of methodology used in helping profession. Includes analysis of helping relationships, study of interpersonal skills and practice techniques. Emphasizes process-oriented approach to solving individual, family, and community problems.

\section*{HMS 102 Human Services: Policy and Politics ... 3}

Analysis of political process involved in formulation of social welfare policies from a historical point of view. Federal, state, and local programs examined in terms of skills and knowledge to effect program planning and delivery.

\section*{HMS 103 Addictive Disease Concepts 3}

Explores addiction from historical and theoretical background to current concepts. Variety of addictive behaviors examined with special focus on psychoactive drug dependency.

\section*{HMS 104 Treatment: Alcohol and Drug Abuse ... 3}

Emphasizes concept of treatment of alcohol and drug abuse as a continuum of processes from intervention through rehabilitation. Incorporation of integral parts of continuum and ways in which it addresses needs of people suffering from alcohol and drug abuse.

\section*{HMS 105 Financing Human Services ... 3}

Study of finance, organization, and administration for potential human service executives. Emphasis on budget planning, budget control, techniques of fund raising through independent campaigns, community chests and united funds, sustaining memberships, capital campaigns, trust funds, publicity, and promotional techniques.

\section*{HMS 106 Introduction to Youth Services Management ... 3}

Addresses needs and issues of potentially and presently employed residential treatment workers, including philosophy of residential services, observation and recording skills, problem-solving, group skills, and team approach.

\section*{HMS 111 Group Practice in Human Services . \\ .3}

Focus on basic issues of group work in human services settings. Covers theory behind group work practice, a study of various types of groups, ethical issues, group leadership, and process of forming and working with groups.

\section*{HMS 112 Interviewing in the Helping Relationship ... 3}

Provides integrated approach to basic helping skills, utilizing theories, practice, and case application. Introduction to interviewing skills for use in both professional and paraprofessional settings.
HMS 201 Human Services Practicum I ... 3
Prerequisites: HMS 100, HMS 101
Field work experience in social, educational, law enforcement (corrections), or other community service organization. Supervision by practicum site professional and college faculty member. Ten or more hours of work experience each week.

Corequisites: Concurrent enrollment in HMS 203 required.

\section*{HMS 202 Human Services Practicum II ... 3}

Prerequisites: HMS 201, HMS 203
Continuation of HMS 201. Depending on student objectives, Human Services Practicum II may be in the same organization or different one. Ten or more hours of work experience each week.

Corequisites: Concurrent enrollment in HMS 204 required.

\section*{HMS 203 Human Services Practicum Seminar I ... 3}

Prerequisites: HMS 100, HMS 101
Discussion and analysis in small groups of the human services practicum experience. Special learning objectives related to kind of work student will do in organization after completion of program.

Corequisites: Concurrent enrollment in HMS 201 required.

\section*{HMS 204 Human Services Practicum Seminar II ... 3}

Prerequisites: HMS 201, HMS 203
Continuation of HMS 203 with different learning objectives. Related to work student will do after completion of programs.
Corequisites: Concurrent enrollment in HMS 202 is required.

\section*{HMS 205 Disability and Society ... 3}

Overview of disabilities: cognitive, psychiatric and physical. History of disability, major legislation that impacts persons with disabilities, resources in the community and how disability impacts the person and society.

\section*{HMS 290 Special Topics in Human Services. 3}

Individual study or selected classes focused on specific Human Services topics which will vary each semester and by instructor. Students may suggest topics of interest.

\section*{HMS 298 Human Services Capstone ... 1}

Culminating experience integrating Human Services Associate of Applied Science program course work. Required for Human Services AAS degree-seeking students in the final semester before graduation.

\section*{Intensive English}

INE 101 Intensive English: Reading and Writing ... 3
Prerequisites: TOEFL score of over 50, or permission of Chair of ESL Department
Instruction for non-native-speaking students in developing emerging reading and writing skills in English. Students will work on essential writing skills at sentence level composition, and they will study vocabulary and idioms. Students will also be required to read, discuss
and analyze short selections. Culture sharing and acclimation to the environment in the United States will also make up some of the reading and writing assignments.

Corequisites: INE 102

\section*{INE 102 Intensive English: Listening and Speaking for NNS ... 3}

Prerequisites: TOEFL score of over 50, or permission of Chair of ESL Department
Instruction for non-native-speaking students to develop emerging English listening and speaking skills in both academic and life-skills based situations. Activities will build students' confidence in speaking English. Students will practice pronunciation and listen to English at word level, sentence level and in simple conversations. Vocabulary, terminology, idioms, slang, grammar and syntax will be taught implicitly and explicitly. Students will discuss, interpret and analyze short readings or videos. Both culture sharing and everyday conversational strategies and topics will be included.

Corequisites: INE 101

Journalism
JRN 120 Introduction to Journalism ... 3
Survey of journalism, including history and study of various media. Emphasis is on journalistic principles, writing, editing and makeup, including work on official student publications.

\section*{JRN 240 Writing for the Print Media ... 3}

Prerequisites: ENG 101, minimum grade of C.
Introductory course in developing skills in writing and reporting for print media. Special attention given to news releases, feature stories, and reporting techniques. Introduction to use of photography.

\section*{JRN 280 Journalism Practicum I ... 3}

Prerequisites: JRN 120 or instructor's permission.
Practical application of news writing, editing, and makeup skills. Emphasizes production experience on official student publications.

\section*{JRN 281 Journalism Practicum II ... 1-3 hrs}

Prerequisites: JRN 280
Continued work on SCC online student newspaper, SCCougar. Advanced work will include special projects or service as editor or director.

JRN 282 Journalism Practicum III ... 1-3 hrs

\section*{Prerequisites: JRN 281}

Additional semester of work on SCC online student newspaper, SCCougar. Advanced work will include special projects or service as editor or director.

\section*{Literature}

\section*{LIT 200 World Mythology ... 3}

Prerequisites: ENG 101
Survey of central myths of Greece, Middle East, Africa, India, Native America, and China. Emphasis on how myths have shaped various cultures.

\section*{LIT 201 Mythology in Western Culture 3}

Prerequisites: ENG-101
This class focuses on the pervading influence of Western mythological traditions in literature and culture.

\section*{LIT 207 Introduction to the Bible as Literature-The Old Testament: Genesis through Malachi 3}

A review of Biblical significance and influence in secular literature. Biblical literacy is assumed by such authors as Chaucer, Keats, Shakespeare, Asimov, Kemp, and Atwood. Cultural touchstones of morality, humanity, and sexuality grounded in Biblical texts will be examined in literature.

\section*{LIT 210 American Literature From 1620-1865 ... 3}

Prerequisites: ENG 101
Study of development of U.S. literary tradition beginning with early colonists through Civil War. Reading and discussion of major authors of poetry, fiction, drama and historical documents.

\section*{LIT 215 Introduction to Poetry ... 3}

Prerequisites: ENG 101
A close study of poetry with special emphasis on the varieties of poetic form and the means of interpretation and evaluation. The works studied will be international in nature and from at least three different centuries.
LIT 216 Dramatic Literature ... 3
Prerequisites: ENG 101
Introductory course in dramatic literature stressing the influences of the past upon modern theater, the commonality and differences between theatrical and filmed drama, and the process on how the written script becomes a live or filmed production.

\section*{LIT 220 American Literature From 1865-present ... 3}

Prerequisites: ENG 101
Survey of American literature beginning with the period after the Civil War to the present. Major American writers in poetry, fiction, and drama will be read and discussed in relation to the development of intellectual thought and literary theory. Includes writers who reflect diverse voices ? Native American, African American, Asian American, Latin American, etc. ? who make America unique.

\section*{LIT 221 The American Dream and the 20th Century ... 3}

\section*{Prerequisites: ENG 101}

A multi-discipline course focusing on the concept of the American Dream in history, literature and film. This course emphasizes the American Era from the end of WWI to the present.

\section*{LIT 230 Contemporary Fiction \\ 3}

Prerequisites: ENG 101
Introduction to American and international fiction written from 1960 to the present. Includes short and long fiction with major emphasis on the similarities and differences of the cultural narratives that reflect the global village.

\section*{LIT 236 Science Fiction ... 3}

\section*{Prerequisites: ENG 101}

Focus on interplay between society and scientific theories, advances and fears of change. Beginning in the romantic period, examines societal reactions to challenges presented by scientific discovery and the resulting changes in world view. Course uses fiction and film.

\section*{LIT 237 Detective Fiction . 3}

Prerequisites: ENG 101
Among the most popular type of genre fiction, beginning with E.A. Poe. Reflecting values and fears of the society and provides entertainment and insight into cultures past and present. Classic writers of detective fiction, contemporary practitioners and film examples are used.

\section*{LIT 238 Horror Fiction .3}

\section*{Prerequisites: ENG 101}

Examination of classic and contemporary writing in order to explore the human fascination with the monstrous, the supernatural, and states of psychological consciousness. Includes the evolution of the horror genre and examine its place in the literary cannon.

\section*{LIT 240 Contemporary Literature ... 3}

Prerequisites: ENG 101
Survey of post-modern literature from 1946 to the present. Includes reading and discussion of poems, essays, short stories, plays, and novels representative of the global and multicultural nature of contemporary society.

\section*{LIT 241 Sociology Through Literature ... 3}

Prerequisites: ENG 101, SOC 101
Application of sociological concepts to literature to analyze socio-historical events.

\section*{LIT 242 Post Colonial Literature} 3
Prerequisites: ENG 101
From Australia to Asia, from the Middle East to Africa, writers in the former colonies of the British empire found a unique voice to explore their lives and their countries. Focuses on the voices of post-colonial literature in the 20th century as they deal with issues of power, gender and politics.

\section*{LIT 250 English Literature Before 1800 ... 3}

Prerequisites: ENG 101
Overview of earliest works written in English. Traces development of various forms of literature from beginnings in early Anglo-Saxon poetry through Shakespeare?s plays and Romantic Poets.

\section*{LIT 252 Introduction to Shakespeare ... 3}

Prerequisites: ENG 101
Introductory course of Shakespeare's insights into human behavior, the conflict inherent within societies, and his use of language.

\section*{LIT 260 English Literature After 1800 ... 3}

Prerequisites: ENG 101
Overview of English literature beginning with Romantics and continuing through Modern Age. Includes poetry, drama, fiction, and essays.
LIT 262 Gothic Literature ... 3
Prerequisites: ENG 101
Focuses on a broad reading of novels, films, stories, and poems in the Gothic literary sensibility. Unlike horror fiction, which focuses on grisly detail, Gothic is primarily concerned with fear of the unknown and resulting paranoia.

\section*{LIT 265 Fiction to Film \\ \(\square\)}

Prerequisites: ENG 101
Investigates fiction and film with emphasis on their uniqueness and relationship, their common narrative elements that convince reader and viewer of their correspondence to life, and of the process of translation from one narrative form to another.

\section*{LIT 267 Film as Literature ... 3}

Prerequisites: ENG 101
This course seeks to read film from a literary perspective; discussions and readings are rooted in literary concepts such as character, theme, narrative structure, genre, motif, symbol, literary theory and adaptation. Sections of the course may generally survey this topic or be focused on a particular topic such as a single director, genre, or discourse.

\section*{LIT 271 Literature and Contemporary Cultures .}

Prerequisites: ENG 101
Introduction to prose, poetry, drama, and film from around the globe by authors from 1900 to Present.

\section*{LIT 272 World Literature - Ancient World Through the Renaissance ... 3}

Prerequisites: ENG 101
Survey course in the foundations of world literary traditions from pre-Classical and Classical World through Middle Ages and Renaissance.

\section*{LIT 273 World Literature - Enlightenment to 20th Century 3}

Prerequisites: ENG 101
Survey course in the foundations of world literary traditions from the European Enlightenment through the 20th century.

\section*{LIT 274 Evolution of the Tragedy: Tragic Heroes and Heroines 3}

Prerequisites: ENG 101
Overview of the evolution of dramatic tragedy from Greek to Modern theater.

Study of novels, essays, poetry, and other art centered on genocide in the Second World War and the post-Holocaust world. Explores matters of Jewish particularity as well as global implications of the Holocaust.

\section*{LIT 280 Gender Issues in Literature . 3}

Prerequisites: ENG 101 with a grade of C or better.
Through the reading of fiction and non-fiction texts, this class introduces students to literary, cultural, political and historical issues that shape gender and identity.

\section*{LIT 299 Topics in Literature \\ 3}

Prerequisites: ENG 101
Variety of special literature studies offered.

\section*{Math}

MAT 096 Pre-Algebra .4
Prerequisites: Placement in MAT 096.
Topics include percents, conversions, area and volume, signed numbers, algebraic expressions, linear equations, statistical graphs, mean, median, mode and their applications. Pass/fail course; does not count toward graduation.

\section*{MAT 098 Beginning Algebra ...}

Prerequisites: Grade of "P" (pass) in MAT 096 or placement in MAT 098.
Topics include linear equations and inequalities, quadratic equations, operations on polynomials, exponent properties, factoring, Pythagorean Theorem, operations on rational expressions, graphs of points and linear equations, systems of two equations in two variables, square roots and applications.

\section*{MAT 105 Applied Math ... 3}

Prerequisites: Grade of P (pass) in MAT 096 or ASMNT MAT 098.
For career students to develop quantitative reasoning skills. Includes basic logic, financial decision-making, probability, statistical reasoning, linear and exponential modeling, and right triangle applications. Relevance of mathematics discussed as it relates to other disciplines.

\section*{MAT 108 Understanding K-8 Mathematics ... 3}

Prerequisites: Grade of \(P\) (pass) in MAT 096 or ASMNT MAT 098.
Basic concepts of the K-8 math curriculum. Concepts experienced through multiple representations ? numerically, algebraically, geometrically, and verbally.

\section*{MAT 121 Intermediate Algebra ... 4}

Prerequisites: Grade of C or better in MAT 098, MAT 098C or placement in MAT 121.
Topics include linear, quadratic, absolute value, rational, exponential, and radical forms and related expressions, equations, inequalities, and applications; relationship between graph and equation of first/second degree and exponential functions; systems of equations in two or three variables; and equations and graphs of circles.

\section*{MAT 122 Euclidean Geometry ... 3}

Prerequisites: Grade of C or better in MAT 098 or ASMNT MAT 121.
Study of geometrical properties and formal Euclidean proofs developed from definitions, postulates, theorems, and corollaries. Topics include intersecting and parallel lines, triangles, quadrilaterals, circles, area and volume, and coordinate geometry.
MAT 150 Trigonometry ... 3
Prerequisites: Grade of C or better in MAT 121 or assess into.
Grade of C or better in MAT 160 College Algebra strongly recommended. Study of trigonometric functions and applications. Topics include angles, length of arc, trigonometric functions, law of cosines, law of sines, identities, trigonometric equations, inverse trigonometric functions, complex numbers, and polar coordinates. Students may not receive credit for both MAT 150 and MAT 171.

\section*{MAT 152 Algebra Bridges to Calculus \& Analytic Geometry I ... 2}

Prerequisites: MAT 158 with a grade of \(C\) or better

Course bridges the gap between MAT 158 and MAT 162. It is for students who have taken MAT 158 as a general education course and are now STEM majors seeking a path into MAT 180. A grade of C or better in both MAT 152 and MAT 158 will satisfy the algebra prerequisite for MAT 180. MAT 180 has a trigonometry prerequisite that may be satisfied by a grade of C or better in MAT 150 or equivalent transfer course.

\section*{MAT 155 Contemporary College Math ... 4}

Prerequisites: MAT 121 with a minimum grade of \(C\) or better or ASMNT MAT 155
This course satisfies the general education requirement for the AA degree. Topics include: inductive and deductive reasoning, set theory, Venn diagrams, truth tables and logic, Geometry and Trigonometry, sequences and series, mathematics of finance, probability, statistics, and applications.

\section*{MAT 156 College Algebra-Educators .4}

Prerequisites: Grade of C or better in MAT 121 or assess into.
This course satisfies the general education requirement for the AAT degree for Education majors. Topics include linear and quadratic equations and inequalities, systems of linear equations, polynomials, functions and their graphs, sequences and series, perimeter, circumference, area, surface area, volume, similarity, congruence, Pythagorean Theorem, Trigonometric ratios, analyzing geometric proofs, coordinate geometry, statistical graphs, counting and probability techniques, sampling, inference, and descriptive statistics including measures of central tendency and spread, and applications.

\section*{MAT 158 College Algebra- General Education ... 4}

Prerequisites: Grade of C or better in MAT 121 or assess into.
This course satisfies the general education requirement for the AA degree. Designed for Non-STEM (non-Science, non-Technology, non-Engineering, non-Mathematics) majors. Topics include linear and quadratic equations and inequalities; complex numbers and solution of higher degree polynomial equations; systems of linear equations; matrices; graphing functions including exponential, logarithmic, rational and polynomial functions, sequences, and series. Students may not receive credit for both MAT 158 and MAT 160 or MAT 162 or MAT 171.

\section*{MAT 162 College Algebra- STEM ... 4}

Prerequisites: Grade of \(C\) or better in MAT 121 or ASMNT MAT 155
This course satisfies the general education requirement for the AA degree. Designed for students in STEM (Science, Technology, Engineering, Mathematics) transfer programs. Topics include linear and quadratic equations and inequalities; complex numbers and solution of higher degree polynomial equations; systems of linear equations; matrices; graphing functions including exponential, logarithmic, and rational polynomial functions; conic sections; sequences, series, and binomial theorem. Students may not receive credit for both MAT 162 and MAT 158 or MAT 160 or MAT 171.

\section*{MAT 171 Pre-Calculus Mathematics ... 6}

Prerequisites: Grade of B or better in MAT 121 or ASMNT MAT 171.
Unified study of College Algebra and Trigonometry provides necessary background for Calculus. Includes linear, quadratic, rational, and higher degree polynomial equations and inequalities; systems of equations; relations and functions along with graphs and equations; exponentials and logarithms; inverse; degree and radian measure; trigonometric functions; identities; triangles; vectors; polar coordinates; complex numbers; matrices and determinants; sequences and series; binomial theorem; mathematical induction; and applications. Students may not receive credit for MAT 171 and either MAT 150 and MAT 160. Students not planning to take Calculus may satisfy mathematics requirement for A.A. degree with MAT 160 or MAT 165 in lieu of MAT 171.

\section*{MAT 175 Introductory Statistics ...}

Prerequisites: Grade of C or better in MAT 158, or MAT 160, or MAT 162; or ASMNT MAT 180, or ASMNT MAT 210.
Topics include descriptive statistics, sampling techniques, counting techniques, probability, probability distributions, confidence interval estimates, hypothesis testing, simple linear regression, and one-way ANOVA.

\section*{MAT 180 Calculus and Analytic Geometry I ... 5}

Prerequisites: Grade of C or better in MAT 171 or both MAT 150 and MAT 160 or both MAT 150 and MAT 162, or ASMNT MAT 180.
First in a sequence of three courses including analytic geometry, differential calculus, and integral calculus. Recommended for majors in mathematics, computer science, physical sciences, or engineering. Includes analytic geometry, functions, limits, continuity, the derivative and differentials, applications of the derivative and differentials, antidifferentiation, indefinite and definite integrals, and applications of definite integral.

\section*{MAT 201 Structure of Math Systems I ... 3}

Prerequisites: Grade of C or better in one of the following: MAT 156, or MAT 158, or MAT 160 or MAT 162 or ASMNT MAT 180.

For potential elementary teachers. Topics include sets, logic, number bases, systems of numeration, system of whole numbers, systems of integers, system of rational numbers, development of real number system, field properties, algorithms for whole numbers, and terminology of mathematics.

\section*{MAT 202 Structure of Math Systems II ...}3

Prerequisites: Grade of C or better in MAT 156 or MAT 158 or MAT 160 or MAT 162 or ASMNT MAT 180.
Intuitive study of elementary geometry, including constructions, congruence, similarity, motion geometry tessellation, and deductive theory of geometry. Study of measurement, including area and volumes. Introduction to concepts of probability and statistics.

\section*{MAT 210 Survey Calculus .. 4}

Prerequisites: Grade of C or better in MAT 158 or MAT 160 or MAT 162 or ASMNT MAT 210.
Recommended for business, life sciences, and social science majors. Focus on techniques of differential and integral calculus with application to business, life sciences, and social sciences. Trigonometry not used.

\section*{MAT 230 Calculus and Analytic Geometry II ... 5}

Prerequisites: Grade of C or better in MAT 180 or ASMNT MAT 230.
Second course in sequence of three recommended for majors in mathematics, computer science, physical sciences, or engineering. Topics include transcendental functions, techniques of integration, indeterminate forms, improper integrals, infinite series, and polar curves.

\section*{MAT 240 Calculus and Analytic Geometry III ... 5}

Prerequisites: Grade of C or better in MAT 230.
Third course in sequence of three recommended for mathematics, computer science, physical science, or engineering majors. Topics include calculus of vectors in two or three dimensions, partial derivatives, multiple integrals and their applications; and introductory topics from differential equations.

\section*{MAT 242 Introductory Linear Algebra \\ 3}

Prerequisites: MAT 230 with a grade of \(C\) or better.
A first course in linear algebra intended for mathematics, computer science, science, and engineering majors. Topics include matrix algebra, determinants, and vector spaces, linear transformations, and eigenvalues and eigenvectors. Offered Fall semester.

\section*{MAT 250 Differential Equations \\ .3}

Prerequisites: Grade of C or better in MAT 240.
First course in differential equations for mathematics, science, and engineering majors. Topics include solution and application of ordinary differential equations including \(n\)-th order nonhomogeneous equations with variable coefficients and simultaneous differential equations. Methods used include Laplace transform, power series, variation of parameter, matrix methods and introduction to numerical solutions. Offered Spring, Summer semester.

\section*{MAT 260 A Transition to Theoretical Mathematics 3}

Prerequisites: Grade of C or better in MAT 230.
First course in theoretical mathematics for mathematics, computer science, engineering and science majors. Includes logic and proofs, set theory, relations and functions, cardinality, introductory abstract algebra and introductory real analysis. Offered Spring semester.

\section*{Music}

\section*{MUS 021 Recital and Concert Attendance ... 0}

Attendance and/or participation at musical performances and master classes, repeated until degree requirement is satisfactorily met.

\section*{MUS 101 Foundations of Music ... 3}

Study in clefs, notation, rhythm, scale structures, pitch, and melodic writing. Basic introduction with no previous experience necessary.

\section*{MUS 102 Accompanying ... 0.25}

Prerequisites: MUS 151 and consent of instructor

Practical experience and working knowledge of basic and advanced techniques for successful piano accompanying.

\section*{MUS 105 SCC Singers I ... 1}

Performance class; students will work on music culminating in public performances. May be repeated for up to 3 credit hours.

\section*{MUS 106 SCC Singers II ... 1}

Second enrollment of MUS 105

\section*{MUS 107 SCC Singers III ... 1}

Third enrollment of MUS 105

\section*{MUS 108 SCC Singers IV ... 1}

Fourth enrollment of MUS 105.

\section*{MUS 109 American Popular Music ...}

Survey of American popular music from 1840 to the present. Examination of the types, styles, and influential musicians of American pop music.

\section*{MUS 110 American Music Appreciation 3}

Emphasis on American music as a panorama of distinct yet parallel streams-popular, folk, sacred, and classical-that reflect the uniquely diverse character of the United States. Musical styles will be compared and contrasted across regions and time, delivering a vision of American music both exuberant and inventive, a music that arises out of the history and musical traditions of many immigrants.
MUS 111 Music Appreciation ... 3
Introductory course for non-music majors. Presents main elements of music, how they develop and change throughout history, and the role of music in society. Emphasis on understanding musical elements and aural applications. Attendance required at live performances.

\section*{MUS 112 Jazz Appreciation ... 3}

Explores the earliest origins of jazz from Creole roots in Louisiana through blues, ragtime, Dixieland, big band, swing, be-bop, cool jazz, avante garde, Latin jazz, and fusion. Students taking this course may not receive credit for MUS 234

\section*{MUS 113 Musical Theater Appreciation I ... 3}

Study of musical theater from its beginnings through Rodgers \& Hammerstein. Students taking this course may not receive credit for MUS 229/ THE 229.

\section*{MUS 114 Musical Theater Appreciation II ... 3}

Study of musical theater from Rodgers and Hammerstein to the present. Students taking this course may not receive credit for MUS 230/THE 230.

\section*{MUS 115 Chamber Choir ... 1}

Prerequisites: Audition with instructor approval.
Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours.

\section*{MUS 116 Chamber Choir II ... 1}

Prerequisites: MUS 115
Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours.

\section*{MUS 117 Chamber Choir III ... 1}

Prerequisites: MUS 116
Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours.

\section*{MUS 118 Chamber Choir IV \\ 1}

Prerequisites: MUS 117, ASMNT INS.
Fourth semester of Chamber Choir.

\section*{MUS 119 Piano Proficiency I ... 1}

Entry-level piano course for music majors with little knowledge of basic rudiments and grand staff reading. The first of a four-course sequence needed to prepare music education majors to meet Missouri piano proficiency requirements for certification to teach in public schools.

Corequisites: MUS 131 and MUS 133

\section*{MUS 120 Piano Proficiency II ... 1}

Prerequisites: MUS 119 or Piano Skills Exam.
Continuation of MUS 119.

\section*{MUS 121 Piano Class I ... 2}

Develops basic skills and techniques in piano playing, applicable to various types of music. No previous keyboard experience required.

\section*{MUS 122 Piano Class II ... 2}

\section*{Prerequisites: MUS 121}

Continuation of MUS 121.

\section*{MUS 123 Voice Class I ... 1}

Fundamentals of tone production, diction, posture, and breathing. Includes simple songs and part singing.

\section*{MUS 124 Voice Class II ... 1}

\section*{Prerequisites: MUS 123}

Continuation of MUS 123.

\section*{MUS 125 Guitar Class I ... 1}

Basic guitar skills through a classic method, including first-position notes and scales, root chords, and accompaniment patterns while developing solo and ensemble skills. Corequisite: MUS 101 or basic theory knowledge. Recommended materials: Classic Guitar.

\section*{MUS 126 Guitar Class II ... 1}

Second enrollment of MUS 125.

\section*{MUS 127 Guitar Class III ... 1}

Third enrollment of MUS 125 and 126.

\section*{MUS 128 Guitar Class IV ... 1}

Fourth enrollment of MUS 125, 126, and 127.

\section*{MUS 129 Percussion Class I ... 1}

Open to students with little or no previous formal training. Note-reading and basic percussion playing techniques for snare drum, timpani, xylophone/marimba, orchestral percussion instruments, drum set, and Latin percussion instruments (bongos, congas, timbales, etc.) will be included. Selected works for each instrument will be studied.

\section*{MUS 130 Percussion Class II ... 1}

Prerequisites: MUS 129
Open to students with little or no previous formal training. Note-reading and basic percussion playing techniques for snare drum, timpani, xylophone/marimba, orchestral percussion instruments, drum set, and Latin percussion instruments (bongos, congas, timbales, etc.) will be included. Selected works for each instrument will be studied.

\section*{MUS 131 Music Theory I ... 3}

Prerequisites: MUS 101 or permission of instructor.
Study of basic rhythm, melody, principal triads and inversions, dominant seventh chords, cadences, non-harmonic tones, part-writing, and keyboard harmony.

Corequisites: MUS 133.

\section*{MUS 132 Music Theory II ... 3}

Prerequisites: MUS 131
continuation of MUS 131 including secondary triads, seventh chords, secondary dominants, elementary modulation, figured bass, and keyboard harmony.

Corequisites: MUS 134

\section*{MUS 133 Ear Training and Sightsinging I ... 1}

Prerequisites: MUS 101 or music assessment test.
Study of rhythmic, melodic, and harmonic dictation in major and minor scales and sightsinging in treble and bass clefs.
Corequisites: MUS 131

\section*{MUS 134 Ear Training and Sightsinging II ... 1}

Prerequisites: MUS 133
Continuation of MUS 133 involving more complex rhythmic, melodic, and harmonic dictation and sightsinging.
Corequisites: MUS 132

\section*{MUS 135 Women's Chorale I ... 1}

Treble voiced choral ensemble; students work on music culminating in public performance. Not limited to women but is only for singers with treble voices.

\section*{MUS 136 Women's Chorale II ... 1}

Second enrollment of MUS 135.

\section*{MUS 137 Women's Chorale III ... 1}

Third enrollment of MUS 135.

\section*{MUS 138 Women's Chorale IV ... 1}

Fourth enrollment of MUS 135.
MUS 139 Percussion Class III ... 1
Prerequisites: MUS 129
Third semester of percussion class.

\section*{MUS 140 Percussion Class IV ... 1}

Prerequisites: MUS 139
Fourth semester of Percussion Class.

\section*{MUS 141 Show Choir I ... 1}

\section*{Prerequisites: Audition}

Select choral ensemble presenting choreographed numbers from musical theater and contemporary popular music.

\section*{MUS 142 Show Choir II ... 1}

\section*{Prerequisites: Audition}

Second enrollment of MUS 141.

\section*{MUS 143 Show Choir III ... 1}

Prerequisites: Audition
Third enrollment of MUS 141

\section*{MUS 144 Show Choir IV ... 1}

Prerequisites: Audition
Fourth enrollment of MUS 141.
MUS 145 Jazz Band I ... 1

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours.

\section*{MUS 146 Jazz Band II ... 1}

\section*{Prerequisites: MUS 145}

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours.

\section*{MUS 147 Jazz Band III ... 1}

\section*{Prerequisites: MUS 146}

Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours.

\section*{MUS 148 Jazz Band IV ... 1}

Prerequisites: MUS 147
Performance course; students rehearse with semester performance as culmination. Must supply own instrument. May be repeated for up to 3 credit hours.

\section*{MUS 162 English/Italian Diction ...}

Basic study of International Phonetic Alphabet and comprehensive study of rules, phonetics, and techniques of English and Italian diction in performance.

\section*{MUS 163 German/French Diction ... 1}

Basic study of International Phonetic Alphabet and comprehensive study of rules, phonetics, and techniques of German and French diction in performance.

\section*{MUS 164 Jazz Improvisation ... 2}

Prerequisites: MUS 101 or instructor's approval.
Explores all aspects of improvisation from beginning to intermediate level. Includes various playing techniques and application of basic theory. Previous playing experience required. Must supply own instrument.

\section*{MUS 165 Instrumental Chamber Ensemble I ... 1}

\section*{Prerequisites: Audition}

Performance class; students study music and performance techniques through rehearsals culminating in public performances. Must supply own instrument.

\section*{MUS 166 Instrumental Chamber Ensemble II ... 1}

Second enrollment of MUS 165

\section*{MUS 167 Instrumental Chamber Ensemble III ... 1}

Prerequisites: MUS 166
Third enrollment of MUS 165

\section*{MUS 175 Concert Band I ... 1}

Students study music techniques through rehearsals culminating in public performances. Must supply own instrument.

\section*{MUS 176 Concert Band II ... 1}

Prerequisites: MUS 175
Second enrollment of MUS 175

\section*{MUS 177 Concert Band III ... 1}

Prerequisites: MUS 176
Third enrollment of MUS 175

\section*{MUS 178 Concert Band IV ... 1}

Prerequisites: MUS 177

\section*{MUS 185 Orchestra I ... 1}

Prerequisites: Must be able to read music and be proficient on an orchestral instrument.
Preparation and performance techniques through the study of orchestral repertoire with emphasis on rehearsal disciplines and musical interpretations. Final performance at end of the semester. Enrollment subject to instrumentation.

MUS 186 Orchestra II ... 1
Prerequisites: MUS 185
Second enrollment of MUS 185
MUS 187 Orchestra III ... 1
Prerequisites: MUS 186
Third enrollment of MUS 185

\section*{MUS 188 Orchestra IV ... 1}

Prerequisites: MUS 187
Continuation of MUS 185

\section*{MUS 195 Wind Ensemble I ... 1}

Prerequisites: Audition with instructor's approval.
A select 12-20 piece ensemble; students prepare music culminating in public performance.
Corequisites: Concert Band.

\section*{MUS 196 Wind Ensemble II ... 1}

Prerequisites: MUS 195
Second Enrollment of MUS 195.
Corequisites: Concert Band.

\section*{MUS 197 Wind Ensemble III ... 1}

Prerequisites: MUS 196
Third enrollment of MUS 195.
Corequisites: Concert Band.

\section*{MUS 198 Wind Ensemble IV ... 1}

Prerequisites: MUS 197
Fourth enrollment of MUS 195
Corequisites: Concert Band.
MUS 210 Music Typography ... 2
Prerequisites: MUS 101
Introduction to the art of music notation using notation software.
MUS 219 Piano Proficiency III ... 1
Prerequisites: MUS 120 or Piano Skills Exam.
Intermediate level piano class for music majors who possess a knowledge of all basic rudiments.

\section*{MUS 220 Piano Proficiency IV ... 1}

Prerequisites: MUS 219 or Piano Skills Exam.
Continuation of MUS 219 to prepare music majors for piano proficiency exam.

\section*{MUS 225 Elements of Conducting ... 3}

Prerequisites: MUS 101
Introduction to baton techniques and elements of interpretation in conducting choral and instrumental music.

\section*{MUS 229 History of American Musical Theater I ... 3}

Study of American musical theater from its origins through Rodgers \& Hammerstein. Students taking this course may not receive credit for MUS 113.

\section*{MUS 230 History of American Musical Theater II ... 3}

Study of American musical theater from Rodgers \& Hammerstein to the present. Students taking this course may not receive credit for MUS 114.

\section*{MUS 231 Music History I ... 3}

Survey of development of Western music from the ancient Greeks through the Baroque period. More in-depth coverage of art music than MUS 111.

\section*{MUS 232 Music History II ... 3}

Continuation of MUS 231. Survey of music from 1600-1827.
Corequisites: Recommended prerequisite: MUS 231.
MUS 234 Jazz History ... 3
Explores earliest origins of Jazz from Creole roots in Louisiana, big band, swing, cool jazz, bebop, avant-garde, Latin jazz, and fusion. For students planning to major in music. Students taking this course may not receive credit for MUS 112.

\section*{MUS 235 Music in the Americas ... 3}

Survey of music cultures found in the Americas focusing on the imported and indigenous music along with select music such as African-American music and Latin-American music. Appropriate for general students and music students.

\section*{MUS 250 Music Audio Production I ... 3}

Basic background for working principles of audio and audio production in the music industry. Introduction to basic audio production techniques and theory. Topics include: microphones, speakers, mixing console operation, and audio editing. Students will complete projects independently and in small groups.

\section*{MUS 259 Music Theater Workshop I ... 1}

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theater.

Corequisites: MUS 229

\section*{MUS 260 Music Theater Workshop ... 1}

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theater.
Corequisites: MUS 230

\section*{MUS 264 Jazz Improvisation II ... 2}

Prerequisites: MUS 164
Continuation of concepts and techniques learned in Jazz Improvisation I. Explore stylistic trends and developments of jazz improvisation.

\section*{MUS 281 Music Theory III ... 3}

Prerequisites: MUS 132
Continuation of MUS 132. Including secondary functions 1 and 2, modulations, Binary and Ternary Form.
Corequisites: MUS 283

\section*{MUS 282 Music Theory IV ...}

Prerequisites: MUS 281
Continuation of MUS 281

\section*{MUS 283 Ear Training and Sightsinging III ... 1}

Prerequisites: MUS 134
Continuation of MUS 134
Corequisites: MUS 281

\section*{MUS 284 Ear Training and Sightsinging IV ... 1}

Prerequisites: MUS 283
Continuation of MUS 283
Corequisites: MUS 282

\section*{MUS 285 Woodwind Methods ... 2}

Prepare to teach woodwind instruments to elementary and middle school level students. Techniques for successful beginning woodwind instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be centered on the flute, clarinet, and saxophone. Students will also become familiar with the oboe and bassoon.

\section*{MUS 286 Brass Methods ... 2}

Prepare to teach brass instruments to elementary and middle school level students. Techniques for successful beginning brass instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be on the trumpet, French horn, trombone, euphonium and tuba.

\section*{MUS 287 String Methods ... 2}

Prepare to teach string instruments to elementary and middle school level students. Techniques for successful beginning string instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be on the violin, viola, cello and bass.

\section*{MUS 288 Percussion Methods ... 2}

Prepare to teach the major instruments found in the percussion family to elementary and middle school level students. Techniques for successful beginning percussion instruction and performance are studied, along with instructional planning, procedures, and resource materials. Students' teaching and playing competencies will be on the major instruments found in the percussion family.

\section*{MUS 295 Opera Theater Workshop ... 1-3}

Prerequisites: Instructor Permission
A performing ensemble workshop emphasizing training and performance of operatic literature. Musical coaching/rehearsal, staging, stage movement, character development and technical stage training are included.

\section*{MUS 299 Sophomore Recital ... 0}

Prerequisites: Completion of at least three (3) semesters of applied instrumental or vocal instruction (e.g. MUS 154).
Solo presentation (with accompaniment) in a recital-type setting of at least 30 minutes.

\section*{Music/Private Lessons - Brass}

\section*{MVB 101 Trumpet Lessons I ... 1-2 hrs}

Individual Trumpet Lessons, starting at the appropriate level.

\section*{MVB 102 Trumpet Lessons II ... 1-2 hrs}

Prerequisites: MVB 101
Second enrollment of MVB 101.

\section*{MVB 103 Trumpet Lessons III ... 1-2 hrs}

Prerequisites: MVB 102

MVB 104 Trumpet Lessons IV ... 1-2 hrs
Prerequisites: MVB 103
Fourth enrollment of MVB 101.
MVB 111 French Horn Lessons I ... 1-2 hrs
Individual French Horn Lessons, starting at the appropriate level
MVB 112 French Horn Lessons II ... 1-2 hrs
Prerequisites: MVB 111
Second enrollment of MVB 111.
MVB 113 French Horn Lessons III ... 1-2 hrs
Prerequisites: MVB 112
Third enrollment of MVB 111.
MVB 114 French Horn Lessons IV ... 1-2 hrs
Prerequisites: MVB 113
Fourth enrollment of MVB 111.

\section*{MVB 121 Trombone Lessons I ... 1-2 hrs}

Individual Trombone Lessons, starting at the appropriate level.
MVB 122 Trombone Lessons II ... 1-2 hrs
Prerequisites: MVB 121
Second enrollment of MVB 121.
MVB 123 Trombone Lessons III ... 1-2 hrs
Prerequisites: MVB 122
Third enrollment of MVB 121.
MVB 124 Trombone Lessons IV ... 1-2 hrs
Prerequisites: MVB 123
Fourth enrollment of MVB 121.
MVB 131 Euphonium Lessons I ... 1-2 hrs
Individual Euphonium Lessons, starting at the appropriate level.
MVB 132 Euphonium Lessons II ... 1-2 hrs
Prerequisites: MVB 131
Second enrollment of MVB 131.
MVB 133 Euphonium Lessons III ... 1-2 hrs
Prerequisites: MVB 132
Third enrollment of MVB 131.
MVB 134 Euphonium Lessons IV ... 1-2 hrs
Prerequisites: MVB 133.
Fourth enrollment of MVB 131.
MVB 141 Tuba Lessons I ... 1-2 hrs

Individual Tuba Lessons, starting at the appropriate level.
MVB 142 Tuba Lessons II ... 1-2 hrs
Prerequisites: MVB 141
Second enrollment of MVB 141.
MVB 143 Tuba Lessons III ... 1-2 hrs
Prerequisites: MVB 142
Third enrollment of MVB 141.
MVB 144 Tuba Lessons IV ... 1-2 hrs
Prerequisites: MVB 143
Fourth enrollment of MVB 141.

\section*{Music/Private Lessons - Percussion}

MVP 101 Percussion Lessons I ... 1-2 hrs
Individual Percussion Lessons, starting at the appropriate level.
MVP 102 Percussion Lessons II ... 1-2 hrs
Prerequisites: MVP 101
Second enrollment of MVP 101.
MVP 103 Percussion Lessons III ... 1-2 hrs
Prerequisites: MVP 102
Third enrollment of MVP 101.
MVP 104 Percussion Lessons IV ... 1-2 hrs
Prerequisites: MVP 103
Fourth enrollment of MVP 101.
MVP 201 Percussion Lessons V ... 1-2 hrs
Prerequisites: MVP 104
Fifth enrollment of MVP 101.
MVP 202 Percussion Lessons VI ... 1-2 hrs
Prerequisites: MVP 201
Sixth enrollment of MVP 101.
MVP 203 Percussion Lessons VII ... 1-2 hrs
Prerequisites: MVP 202
Seventh enrollment of MVP 101.
MVP 204 Percussion Lessons VIII ... 1-2 hrs
Prerequisites: MVP 203
Eighth enrollment of MVP 101.

Music/Private Lessons - Piano
MVK 101 Keyboard Lessons I ... 1-2 hrs
Individual Keyboard Lessons, starting at the appropriate level.

\section*{MVK 102 Keyboard Lessons II ... 1-2 hrs}

Prerequisites: MVK 101
Second enrollment of MVK 101.
MVK 103 Keyboard Lessons III ... 1-2 hrs
Prerequisites: MVK 102
Third enrollment of MVK 101.
MVK 104 Keyboard Lessons IV ... 1-2 hrs
Prerequisites: MVK 103
Fourth enrollment of MVK 101.

\section*{MVK 111 Organ Lessons I ... 1-2 hrs}

Individual Organ Lessons, starting at the appropriate level.
MVK 112 Organ Lessons II ... 1-2 hrs
Prerequisites: MVK 111
Second enrollment of MVK 111.
MVK 113 Organ Lessons III ... 1-2 hrs
Prerequisites: MVK 112
Third enrollment of MVK 111.
MVK 114 Organ Lessons IV ... 1-2 hrs
Prerequisites: MVK 113
Fourth enrollment of MVK 111.
MVK 201 Keyboard Lessons V ... 1-2 hrs
Prerequisites: MVK 104
Fifth enrollment of MVK 101.

\section*{MVK 202 Keyboard Lessons VI ... 1-2 hrs}

Prerequisites: MVK 201
Sixth enrollment of MVK 101.
MVK 203 Keyboard Lessons VII ... 1-2 hrs
Prerequisites: MVK 202
Seventh enrollment of MVK 101.
MVK 204 Keyboard Lessons VIII ... 1-2 hrs
Prerequisites: MVK 203
Eighth enrollment of MVK 101

Music/Private Lessons - String
MVS 101 Guitar-Classical Lessons I ... 1-2 hrs
Individual Guitar-Classical Lessons, starting at the appropriate level.
MVS 102 Guitar-Classical Lessons II ... 1-2 hrs
Prerequisites: MVS 101
Second enrollment of MVS 101.
MVS 103 Guitar-Classical Lessons III ... 1-2 hrs
Prerequisites: MVS 102
Third enrollment of MVS 101.
MVS 104 Guitar-Classical Lessons IV ... 1-2 hrs
Prerequisites: MVS 103
Fourth enrollment of MVS 101.
MVS 111 Guitar-Jazz Lessons I ... 1-2 hrs
Individual Guitar-Jazz Lessons, starting at the appropriate level.
MVS 112 Guitar-Jazz Lessons II ... 1-2 hrs
Prerequisites: MVS 111
Second enrollment of MVS 111.
MVS 113 Guitar-Jazz Lessons III ... 1-2 hrs
Prerequisites: MVS 112
Third enrollment of MVS 111
MVS 114 Guitar-Jazz Lessons IV ... 1-2 hrs
Prerequisites: MVS 113
Fourth enrollment of MVS 111
MVS 121 Guitar-Bass Lessons I ... 1-2 hrs
Individual Guitar-Bass Lessons, starting at the appropriate level.
MVS 122 Guitar-Bass Lessons II ... 1-2 hrs
Prerequisites: MVS 121
Second enrollment of MVS 121
MVS 123 Guitar-Bass Lessons III ... 1-2 hrs
Prerequisites: MVS 122
Third enrollment of MVS 121
MVS 124 Guitar-Bass Lessons IV ... 1-2 hrs
Prerequisites: MVS 123
Fourth enrollment of MVS 121.
MVS 131 Violin Lessons I ... 1-2 hrs
Individual Violin Lessons, starting at the appropriate level.
MVS 132 Violin Lessons II ... 1-2 hrs
Prerequisites: MVS 131

MVS 133 Violin Lessons III ... 1-2 hrs
Prerequisites: MVS 132
Third enrollment of MVS 131.
MVS 134 Violin Lessons IV ... 1-2 hrs
Prerequisites: MVS 133
Fourth enrollment of MVS 131.
MVS 141 Viola Lessons I ... 1-2 hrs
Individual Viola Lessons, starting at the appropriate level.
MVS 142 Viola Lessons II ... 1-2 hrs
Prerequisites: MVS 141
Second enrollment of MVS 141
MVS 143 Viola Lessons III ... 1-2 hrs
Prerequisites: MVS 142
Third enrollment of MVS 141
MVS 144 Viola Lessons IV ... 1-2 hrs
Prerequisites: MVS 143
Fourth enrollment of MVS 141
MVS 151 Cello Lessons I ... 1-2 hrs
Individual Cello Lessons, starting at the appropriate level.
MVS 152 Cello Lessons II ... 1-2 hrs
Prerequisites: MVS 151
Second enrollment of MVS 151
MVS 153 Cello Lessons III ... 1-2 hrs
Prerequisites: MVS 152
Third enrollment of MVS 151
MVS 154 Cello Lessons IV ... 1-2 hrs
Prerequisites: MVS 153
Fourth Enrollment of MVS 151
MVS 161 Bass Lessons I ... 1-2 hrs
Individual Bass Lessons, starting at the appropriate level
MVS 162 Bass Lessons II ... 1-2 hrs
Prerequisites: MVS 161
Second enrollment of MVS 161
MVS 163 Bass Lessons III ... 1-2 hrs
Prerequisites: MVS 162
Third enrollment of MVS 161.
MVS 164 Bass Lessons IV ... 1-2 hrs

Fourth enrollment of MVS 161.

\section*{MVS 221 Guitar-Bass Lessons V ... 1-2}

Prerequisites: MUS 124
Fifth enrollment of MUS 121.
MVS 231 Violin Lessons V ... 1-2 credits
Prerequisites: MVS 134
Fifth enrollment of MVS 131
MVS 231 Violin Lessons V ... 1-2 credits
Prerequisites: MVS-134
Fifth enrollment of MVS 131.
MVS 232 Violin Lessons VI ... 1-2 credits
Prerequisites: MVS-231
Sixth Enrollment of MVS -131.

\section*{Music/Private Lessons - Vocal}

\section*{MVV 101 Voice Lessons I ... 1-2 hrs}

Individual Voice Lessons, Starting at the appropriate level.

\section*{MVV 102 Voice Lessons II ... 1-2 hrs}

Prerequisites: MVV 101
Second enrollment of MVV 101.
MVV 103 Voice Lessons III ... 1-2 hrs
Prerequisites: MVV 102
Third enrollment of MVV 101.

\section*{MVV 104 Voice Lessons IV ... 1-2 hrs}

Prerequisites: MVV 103
Fourth enrollment of MVV 101.
MVV 201 Voice Lessons V ... 1-2 hrs
Prerequisites: MVV 104
Fifth enrollment of MVV 101.
MVV 202 Voice Lessons VI ... 1-2 hrs
Prerequisites: MVV 201
Sixth enrollment of MVV 101.
MVV 203 Voice Lessons VII ... 1-2 hrs
Prerequisites: MVV 202
Seventh enrollment of MVV 101

\section*{Music/Private Lessons - Woodwind}

MVW 101 Flute/Piccolo Lessons I ... 1-2 hrs
Individual Flute/Piccolo Lessons, starting at the appropriate level.
MVW 102 Flute/Piccolo Lessons II ... 1-2 hrs
Prerequisites: MVW 101
Second enrollment of MVW 101.
MVW 103 Flute/Piccolo Lessons III ... 1-2 hrs
Prerequisites: MVW 102
Third enrollment of MVW 101
MVW 104 Flute/Piccolo Lessons IV ... 1-2 hrs
Prerequisites: MVW 103
Fourth enrollment of MVW 101.

\section*{MVW 111 Oboe Lessons I ... 1-2 hrs}

Individual Oboe Lessons, starting at the appropriate level.
MVW 112 Oboe Lessons II ... 1-2 hrs
Prerequisites: MVW 111
Second enrollment of MVW 111.
MVW 113 Oboe Lessons III ... 1-2 hrs
Prerequisites: MVW 112
Third enrollment of MVW 111.
MVW 114 Oboe Lessons IV ... 1-2 hrs
Prerequisites: MVW 113
Fourth enrollment of MVW 111.

\section*{MVW 121 Clarinet Lessons I ... 1-2 hrs}

Individual Clarinet Lessons, starting at the appropriate level.
MVW 122 Clarinet Lessons II ... 1-2 hrs
Prerequisites: MVW 121
Second enrollment of MVW 121.
MVW 123 Clarinet Lessons III ... 1-2 hrs
Prerequisites: MVW 122
Third enrollment of MVW 121
MVW 124 Clarinet Lessons IV ... 1-2 hrs
Prerequisites: MVW 123
Fourth enrollment of MVW 121

\section*{MVW 131 Bassoon Lessons I ... 1-2 hrs}

Individual Bassoon Lessons, starting at the appropriate level.

\section*{MVW 132 Bassoon Lessons II ... 1-2 hrs}

Prerequisites: MVW 131
Second enrollment of MBW 131.
MVW 133 Bassoon Lessons III ... 1-2 hrs
Prerequisites: MVW 132
Third enrollment of MVW 131
MVW 134 Bassoon Lessons IV ... 1-2 hrs
Prerequisites: MVW 133
Fourth enrollment of MVW 131
MVW 141 Saxophone Lessons I ... 1-2 hrs
Individual Saxophone Lessons, starting at the appropriate level.

\section*{MVW 142 Saxophone Lessons II ... 1-2 hrs}

Prerequisites: MVW 141
Second enrollment of MVW 141.
MVW 143 Saxophone Lessons III ... 1-2 hrs
Prerequisites: MVW 142
Third enrollment of MVW 141.
MVW 144 Saxophone Lessons IV ... 1-2 hrs
Prerequisites: MVW 143
Fourth enrollment of MVW 141

\section*{Nursing}

\section*{NUR 100 Exploration of Nursing ... 1}

Exploration of nursing from a broad view: nursing as a profession; educational requirements; advanced degree opportunities; the variety of roles in nursing practice; factors that promote student and professional success; and observation.

\section*{NUR 101 Tools for Success in an ADN Program ...}

Prerequisites: Acceptance into the Nursing Program
Key strategies and skills needed to be successful in an RN nursing program. Included time management, note-taking regarding nursing texts, labs, clinicals, videos, listening, critical thinking, and clinical preparation. Attendance is mandatory for all four days to receive a passing grade.

\section*{NUR 102 LPN Bridge to ADN Program ... 1}

Prerequisites: ENG-102, SOC-101 and one of HIS-101, HIS-102, HIS-115, HIS-270 POL-101 or POL-102, and CHM-101/103 or CHM106

LPN Bridge to ADN Program will review fundamentals of nursing as they relate to the role transition from licensed professional nurse to registered nurse. Content will be reviewed including nursing process, professional ethics, interdisciplinary relationships, therapeutic communication, nutrition, pharmacology, assessment, medication administration, sterile technique and medication mathematics.

Each human being is presented as a unique individual, constantly responding to internal and external stimuli. The nursing process is emphasized as students apply principles of physical, biological, and social sciences. Basic nutrition and pharmacology are introduced. Nursing history and elements of health and disease are presented. Professional ethics and interpersonal relations are integrated throughout the course. Basic concepts of nursing are introduced and basic nursing skills are taught and practice in the nursing lab. The student will learn health assessment techniques, with an emphasis on therapeutic communication.

Corequisites: BIO 240, BIO 243, ENG 101, CHM 101, CHM 103, NUR 113, NUR 123. Effective 2013, any required science course with a "B" or better.

\section*{NUR 104 Nursing of Adults and Children II ... 11}

Prerequisites: BIO 240, BIO 243, CHM 101, CHM 103, ENG 101, NUR 103, NUR 113, NUR 123, PSY 101
Human growth and development is emphasized while studying human adaptive and maladaptive responses to disturbances in nutrition and fluid balance. Illnesses that interfere with these processes throughout the life span are presented with focuses on physiological, psychosocial, and spiritual aspects during each stage of development. Adaptive and maladaptive responses to stressors that interfere with psychosocial homeostasis are presented. Current treatment modalities are emphasized with a historical overview of psychiatric therapy.

Corequisites: BIO 241, BIO 244, NUR 114, NUR 124

\section*{NUR 107 Pharmacology ... 3}

Prerequisites: BIO 240, BIO 241.
Elective on-line course that presents concepts of drug actions and how they affect various body systems and disease conditions.
Provides concentrated, intentional opportunity for students to learn pharmacological principles and how they apply to care for humans.

\section*{NUR 113 Introduction to Nursing Laboratory ... 0}

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multimedia, textbooks, self-direction, demonstrations and lab staff assistance. Included: vital signs, hygiene and medical asepsis, assessment, mobility, medication administration, sterile technique, dressing changes and fundamental medication math.

Corequisites: NUR 103, NUR 123

\section*{NUR 114 Nursing of Adults and Children I Laboratory ... 0}

Prerequisites: NUR 103, NUR 113, NUR 123.
Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: urinary catheterization, intravenous fluids administration, nasogastric insertion, enteral feeding, ostomy care, medication administration synthesis and intermediate medication math.

Corequisites: NUR 104, NUR 124.

\section*{NUR 123 Introduction to Nursing Clinical ... 0}

Students care for patients in the nursing home and/or hospital/health care center. Ten clinical laboratory hours per week.
Corequisites: NUR 103, NUR 113

\section*{NUR 124 Nursing of Adults and Children I Clinical ... 0}

Prerequisites: NUR 103, NUR 113, NUR 123
Students plan, administer, and evaluate nursing care to patients in pediatric, geriatric, medical and surgical units. Observation of developmental stages is provided in schools, hospitals/health care centers, and nursing homes. Thirteen clinical laboratory hours per week.

Corequisites: NUR 104, NUR 114

\section*{NUR 200 Registered First Nurse Assistant ... 3}

This AORN-approved class follows the core curriculum for the RN First Assistant. Six credit hours are awarded upon completion of the course. Three credits are earned through classroom/ theory presentation and internship. For eligibility requirements and registration packet, call (636) 922-8280.

\section*{NUR 220 RNFA Certification Clinical ... 3}

\section*{Prerequisites: NUR 200}

Supervised practice by surgeon mentor during actual surgical procedures. Documentation of procedures and activities is required. Must meet minimum clock hours to meet regulating guidelines.

\section*{NUR 253 Nursing of Adults and Children III ... 10}

Prerequisites: BIO 240, BIO 243, CHM 101, CHM 103, ENG 101, NUR 103, NUR 113, NUR 123, BIO 241, BIO 244, NUR 104, NUR 114, NUR 124, PSY 101, BIO 245, BIO 247.

The individual is considered as a part of a social unit, the family. The development of sexual roles is presented and the physical, psychosocial and ethno cultural factors that influence it are considered. Adaptive and maladaptive responses of the mother, the neonate and other family members to pregnancy and the birth process are examined. The human body's responses to interferences with oxygenation of tissue are studied as it relates to respiratory, hematological and cardiac systems. Psychological adaptive and maladaptive responses to change in family dynamics and health conditions are considered.

Corequisites: NUR 263, NUR 273, any two of the following: SOC 101, Literature or ENG 102, and US History or Government.

\section*{NUR 254 Nursing of Adults and Children IV ... 11}

Prerequisites: BIO 240, BIO 243, BIO 241, BIO 244, BIO 245, BIO 247, CHM 101, CHM 103, ENG 101, ENG 102 or any LIT, PSY 101, SOC 101, NUR 103, NUR 113, NUR 123, NUR 104, NUR 114, NUR 124, NUR 253, NUR 263, NUR 273

The patient with problems related to mobility, perception, metabolism and body defense mechanisms is discussed, with emphasis on nurse and patient functioning on a health illness continuum. Included: assessment and neurological, endocrine, integumentary, musculoskeletal and sensory systems. Professional development is continued, as nursing leadership, ethical aspects of nursing care and the legal-professional role of the nurse are discussed.

Corequisites: NUR 264. NUR 274.

\section*{NUR 263 Nursing of Adults and Children III Laboratory ... 0}

Prerequisites: BIO 240, BIO 243, CHM 101, CHM 103, ENG 101, NUR 103, NUR 113, NUR 123, BIO 241, BIO 244, NUR 104, NUR 114, NUR 124, PSY 101, BIO 245, BIO 247

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: peripheral intravenous therapy, central venous catheters, respiratory care, ECG basics, blood product administration and advanced medication mathematics.

Corequisites: NUR 253, NUR 273.

\section*{NUR 264 Nursing of Adults and Children IV Laboratory ... 0}

Prerequisites: BIO-240, BIO-243, CHM-101, CHM-103, ENG-101, NUR-103, NUR-113, NUR-123, BIO-241, BIO-244, BIO-245, BIO247, PSY-101, NUR-104, NUR-114, NUR-124, NUR-253, NUR-263, NUR-273, SOC-101, ENG-102;

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: communication in the health care setting and prioritizing, delegation and comprehensive medication mathematics.

Corequisites: NUR 254, NUR 274.

\section*{NUR 273 Nursing of Adults and Children III Clinical ... 0}

Prerequisites: BIO 240, BIO 243, CHM 101, CHM 103, ENG 101, NUR 103, NUR 113, NUR 123, BIO 241, BIO 244, NUR 104, NUR 114, NUR 124, PSY 101, BIO 245, BIO 247.

Students plan, administer, and care for patients in labor and delivery, postpartum, and nursery units as well as in medical and surgical units in area hospital/health care facilities. Twelve clinical laboratory hours per week.

Corequisites: NUR 253, NUR 263.

\section*{NUR 274 Nursing of Adults and Children IV Clinical ... 0}

Prerequisites: BIO 240, BIO 243, CHM 101, CHM 103, NUR 103, NUR 113, NUR 123, BIO 241, BIO 244, BIO 245, BIO 247, PSY 101, NUR 104, NUR 114, NUR 124, NUR 253, NUR 263, NUR 273, SOC 101, ENG 101, ENG 102 or any LIT

Gaining independence, students plan, administer, and evaluate total nursing care to patients and begin supervising others giving care. Emphasis is placed upon the nurse and patient functioning in a homeostatic milieu, with consideration of physical, psychosocial, ethnocultural and spiritual aspects of development. A 5-week preceptorship provides transition between student and practitioner. Sixteen clinical laboratory hours per week.

Corequisites: NUR 254, NUR 264.

\section*{OTA 100 Fundamentals of Occupational Therapy Assistant I ... 4}

Prerequisites: BIO 240/243, ENG 101
Acceptance in the OTA Program. Introduction to occupational therapy, including its history, philosophy, and practice base in relation to treatment in psychosocial dysfunction, physical disabilities, and developmental pediatrics. Theories guiding occupational therapy practice, values and ethics of the profession. Exploration of oral and written communication skills. Overview of occupational therapy process and the OTA role in screening, assessment, treatment planning, treatment implementation, and discharge. Examination of role of occupational therapy personnel in variety of treatment settings, including concepts related to client-practitioner interaction and communication and the importance of collaboration with clients, caregivers, and other health care professionals. Level I Fieldwork opportunities to apply basic occupational therapy principles and techniques and observe roles of OTs and other allied health professionals. Four lecture hours and three hours per week. Level I fieldwork beginning week six for six weeks.

Corequisites: Suggested Corequisites: BIO 270/271, CPT 103, ENG 115 or ENG 125, OTA 103.

\section*{OTA 102 Fundamentals of Occupational Therapy Assistant II ... 3}

Prerequisites: OTA 100
Introduction of beginning skills in occupational therapy treatment in psychosocial dysfunction. Major theories guiding occupational therapy practice in psychosocial treatment and their application to sensory motor, psychosocial, and cognitive development through the life span. Emphasis on group leadership and facilitation, development of communication and observation skills, and use of self as a therapeutic modality. Examination of issues related to death and dying. Exploration of occupational therapy process of assessment, treatment planning and treatment implementation and discontinuation of intervention in relation to psychosocial practice issues and concerns. Discussion of concepts of psychosocial intervention with other areas of practice. Role of the OTA in prevention, health maintenance, and quality of life of the individual with psychosocial dysfunction. Three lecture hours.

Corequisites: OTA 112, OTA 104/114, OTA 207/217
OTA 103 Adaptive Activities I ... 2
Prerequisites: BIO 240/243, ENG 101.
Acceptance into the OTA program. Use of activities in occupational therapy with primary emphasis on the performance area of play/leisure including, those that address sensory motor, cognitive, and psychosocial performance components. Introduction to common therapeutic media used in OT practice. Introduction to acquisition of basic skills, concepts of activity analysis, instruction of individuals and groups, problem-solving, equipment maintenance, and cost and supply factors. Four lab hours per week.

Corequisites: Suggested Corequisites : BIO 270/271, CPT 103, ENG 115 or ENG 125, OTA 100.

\section*{OTA 104 Adaptive Activities II ... 1}

Prerequisites: OTA 100
Continuation of use of activities in OT with a primary emphasis on the performance area of work/productive activities that address sensory motor, cognitive, and psychosocial performance components. Activities, strategies, and techniques that emphasize the use of purposeful activities and occupation to enhance role function. Introduction to standardized and non-standardized evaluations using activity based format. Development of more advanced skills that focus on grading and adapting purposeful activities and instructing individuals and groups for therapeutic interventions. One lecture hour per week.

Corequisites: OTA 102/112, OTA 114, OTA 207/217.

\section*{OTA 112 Fundamentals of Occupational Therapy Assistant II Lab ... 1}

Prerequisites: OTA 100
Lab course complement to OTA 102. Provides hands-on laboratory experience, reinforcing material covered in the lecture component. Two hours per week.

Corequisites: OTA 102, OTA 104/114, OTA 207/217
OTA 114 Adaptive Activities II Lab ... 1
Prerequisites: OTA 100
Lab course complement to OTA 104. Provides hands-on laboratory experience, reinforcing material covered in the lecture component. Two hours per week.

Corequisites: OTA 102/112, OTA 104, OTA 207/217
OTA 203 Fundamentals of Occupational Therapy III ... 4

Occupational therapy process related to physical dysfunction evaluation and treatment procedures including self-care, therapeutic exercise, home management, use of adaptive equipment, work and play-leisure skills. Introduction to remediation in movement difficulties and practiced in the laboratory. Administration of standardized and non-standardized tests and evalu-ations, and need for demonstrating service competency. Activity analysis, documen-tation, formulation of goals and objectives, collaboration with occupational therapist on treatment implementation, assessment/ reassessment, and termination of treatment. Level I fieldwork introduces application of occupational therapy procedures under close supervision. Three lecture hours. Three hours Level 1 Fieldwork beginning week four for nine weeks or one week of 30 hours.

Corequisites: OTA 213, OTA 204/214, OTA 209, OTA 218

\section*{OTA 204 Fundamentals of Occupational Therapy IV ... 3}

\section*{Prerequisites: OTA-102}

Evaluation and treatment of pediatric population appropriate to role of OTA including development and perceptual motor skills, selfcare, design and use of adaptive equipment, and play/leisure issues are explored in relation to normal sensory motor, psychosocial, and cognitive development. Interventions using age appropriate activities. Examination of cultural factors on treatment and treatment implementation, including the importance of collaboration and inclusion of family, care givers, and others in the OT process. Laboratory experiences arranged at on-site daycare center for typically developing and special needs children. Field trip to be arranged. Three lecture hours.

Corequisites: OTA 203/213, OTA 214, OTA 209, OTA 218.

\section*{OTA 207 Health and Disease ... 3}

\section*{Prerequisites: OTA 100}

Overview of disease conditions commonly seen for treatment by occupational therapy practitioners. Etiology, symptoms and physical and psychological reactions to these conditions. Basic influences contributing to healthy living. Includes medical terminology and procedures commonly used in occupational therapy.

Corequisites: OTA 102/112, OTA 104/114, OTA 217

\section*{OTA 209 Health Occupations Seminar ... 2}

\section*{Prerequisites: OTA 102}

Current trends and issues in the health care system, including legal and ethical components of practice, cultural diversity; OTR-OTA role delineation; supervision; documentation to ensure accountability and reimbursement requirements; community resources; multidisciplinary approach to treatment; and employability skills. Examination of OTA as director of activity program in relation to assessment, treatment planning, and treatment implementation needs. Issues of continuing professional competency, research and program development, involvement in professional organizations and political advocacy. Exploration of quality assurance and measurement of treatment outcomes as well as credential requirements, compliance with regulations, and the use of non-professional personnel. Two lecture/seminar hours per week.

Corequisites: OTA 203/213, OTA 204/214, OTA 218.

\section*{OTA 210 Occupational Therapy Assistant Practicum I ... 4}

\section*{Prerequisites: OTA 203}

Development of professional skills through supervised application of treatment principles. Fieldwork experience in the treatment of geriatric clients, physically disabled children or adults, or clients with psychosocial dysfunction. Student under direct supervision from an occupational therapy practitioner in all aspects of occupational therapy practice. Requires at least 37 hours per week for eight weeks in each of two different sites for a total of 16 weeks. (See OTA 211). Specific objectives developed by the fieldwork site educator in collaboration with OTA academic fieldwork coordinator. Completion of at least one fieldwork practicum in a physical disability site and the second in any of the following: physical disability, psychosocial, pediatric, hand therapy, work hardening, or a combination of sites. Psychosocial experiences are expected in all fieldwork.

Corequisites: OTA 298

\section*{OTA 211 Occupational Therapy Assistant Practicum II ... 4}

Prerequisites: OTA 203
Development of professional skills through supervised application of treatment principles. Fieldwork experience in the treatment of geriatric clients, physically disabled children or adults, or clients with psychosocial dysfunction. Student under direct supervision from an occupational therapy practitioner in all aspects of occupational therapy practice. Requires at least 37 hours per week for eight weeks in each of two different sites for a total of 16 weeks. (See OTA 211). Specific objectives developed by the fieldwork site educator in collaboration with OTA academic fieldwork coordinator. Completion of at least one fieldwork practicum in a physical disability site and the second in any of the following: physical disability, psychosocial, pediatric, hand therapy, work hardening, or a combination of sites.

Psychosocial experiences are expected in all fieldwork. Note: Fieldwork II must be completed within 18 months following completion of academic coursework. All academic and Level I and Level II Fieldwork must be completed before the student is eligible for graduation. Graduation from an accredited OTA program is a prerequisite to submitting an application to sit for the national certification examination.

Corequisites: OTA 298

\section*{OTA 213 Fundamentals of Occupational Therapy III Lab ... 1}

Prerequisites: OTA 102
Lab course complement OTA 203. Provides hands-on laboratory experience, reinforcing material covered in the lecture component. Two hours per week.

Corequisites: OTA 203, OTA 204/214, OTA 209, OTA 218

\section*{OTA 214 Fundamentals of Occupational Therapy IV Lab ... 1}

Prerequisites: OTA 102
Lab course complement to OTA 204. Provides hands-on laboratory experience, reinforcing material covered in the lecture component. Two hours per week.

Corequisites: OTA 203/213, OTA 204, OTA 209, OTA 218
OTA 217 Health \& Disease Lab ... 1
Prerequisites: OTA 100
Lab course complement to OTA 207. Provides hands-on laboratory experience, reinforcing material covered in the lecture component.
Corequisites: OTA 102/112, OTA 104/114, OTA 207

\section*{OTA 218 Adaptive Living Skills ... 4}

Prerequisites: OTA 102
Skills required for designing and fabricating adaptive equipment. Adaptive activities with a primary emphasis on performance area of activities of daily living as applied to seating, positioning, splinting, functional tasks, functional mobility, and environmental barriers. Communication with clients, families, care givers, and other health-care professionals in relation to benefits and use of adaptive equipment, its function, care, and precautions. Four hours per week.

Corequisites: OTA 203/213, OTA 204/214, OTA 209.
OTA 298 Occupational Therapy Capstone ... 1
Prerequisites: OTA 203
Completion of program-culminating experiences for the Occupational Therapy Assistant Associate's degree. Provides an opportunity for application and integration of academic course work into fieldwork experiences. Requires reflection of how the role of occupational therapy and the occupational therapy assistant are demonstrated and delineated in each fieldwork facility. Allows for problem solving approach for adjusting to various work sites and handling feedback from supervisors. Requirements for college standardized testing, state licensure and national certification examination are reviewed. Completes development of professional resume and cover letter for employment.

Corequisites: OTA 210, OTA 211

\section*{Philosophy}

\section*{PHL 101 Introduction to Philosophy ... 3}

Introduction to philosophical inquiry and historically important philosophical ideas discussed by classical and/or modern philosophers. Topics may include the nature of love, the foundation of ethical action, the nature and limits of knowledge, the essence of truth, and the meaning of technology in contemporary culture.

\section*{PHL 102 Introduction to Logic ... 3}

Study of techniques and methods for identifying, classifying, clarifying, and evaluating various kinds of reasoning and related uses of language.

\section*{PHL 160 Ethics ... 3}

Introductory survey of classical and contemporary theories in field of ethics. Questions considered regarding ideal moral life, nature of good and evil, principles for distinguishing right from wrong, and ethical relativism versus objectivism. Discusses selected moral dilemmas of modern living.

\section*{PHL 201 World Religion ... 3}

Introduction to basic doctrines and stories of seven major religions of the world: Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

\section*{PHL 260 Reason and Religion ... 3}

Prerequisites: ENG 101
Introduction to Western philosophy of religion. Topics include the character and reliability of religious experience, arguments for and against God?s existence, the meaningfulness of religious language, the problem of evil, and life after death.

\section*{PHL 290 Topics in Philosophy ... 3}

Seminar style course reflecting specializations in fields of philosophy. Titles may include: The Modern and the Postmodern, Democracy and Philosophy, Phenomenology and Existentialism, and Aesthetics.

\section*{Physical Education}

\section*{PHE 102 Concepts: Drugs ... 2}

Organized to provide a measure of sequential development and interrelatedness of subjects pertaining to psychoactive drugs and drugtaking behaviors. Sections include overview of drug problems in America, examination of effects of various drugs such as alcohol, cocaine, hallucinogens, prescription drugs, and others on the human body, and insight into drug abuse prevention efforts employed in variety of settings.

\section*{PHE 103 Concepts: Health ... 3}

Study of vital health principles and problems. Personal and community health issues discussed. Overall objective to favorably influence habits, attitudes, and knowledge related to individual and community health. Offered on campus and Web.

\section*{PHE 105 First Aid/Safety ... 2}

First aid practices to give appreciation of good safety habits. Practical application of basic first aid methods. CPR certification included. PHE 106 Personal Wellness ... 2

Focuses on development of positive lifestyle by using combination of classroom/activity. Experiences include concepts of fitness, lifetime sports, stress management techniques, leisure well being, contemporary threats, and nutrition. Completion allows current SCC students to continue use of the SCC Fitness Center.

\section*{PHE 107 Selected Health Topics ... 0.5}

Variable content designed to develop positive health practices for a lifetime of wellness. Topics vary with interest and need. Limit of 2 credit hours (four topics) may be used toward graduation credit.

\section*{PHE 108 Stress Management ... 3}

Explores the nature of stress and the physiological and psychological effects upon the body due to prolonged stress responses. Short and long term somatic and behavioral techniques for applied stress control (i.e. exercise, nutrition, relaxation, visualization, meditation, goal setting, and time management) will be examined.

\section*{PHE 109 Nutrition for Weight Management ... 3}

Understanding the role of nutritional quality and quantity of food intake, exercise and fitness levels and how they relate to body image, eating disorders, and obesity.

\section*{PHE 112 Beginning Swimming ... 1}

Learn to swim. Covers water safety and water familiarity. Practices of basic strokes.

\section*{PHE 113 Volleyball ... 1}

Basic rules, techniques, and safety. Activity class with emphasis on skill building through participation. Appropriate for beginners and experienced players.

\section*{PHE 114 Dance Aerobics I ... 1}

Development of fitness and aerobic capacity by performing simple dance steps and other moves to music. Choreographed exercise. A written component will be included.

PHE 115 Physical Fitness ... 1
Improvement of overall fitness by combinations of activities.
PHE 118 Fitness Center I ... 1

Orientation to selectorized weight equipment and cardiovascular equipment to utilize all major muscle groups. Based upon fitness assessment, students are taught how to monitor personal progress under instructor supervision. Completion of the course allows student to use the Fitness Center during open hours without instructor supervision.

\section*{PHE 121 Step and Muscle Conditioning ... 1}

Combines step aerobics and free weights. A written component may be required.

\section*{PHE 122 Yoga ... 1}

Based on the principles of Hatha Yoga movements, students will increase in physical fitness, strength, flexibility, and balance. Breathing and meditation techniques will be used to assist the student in making the mind/body/spirit connection so yoga can be incorporated into daily life.

\section*{PHE 124 Pilates ... 1}

Emphasis on exercises for the core muscles of the body by using balls, weighted bars, body weight postural cues, and breathing techniques to challenge muscles. Follows the Stotts method.

\section*{PHE 125 Walking Fitness ... 1}

Principles of fitness development are developed using the activity of walking. Strength and endurance are targeted and an understanding of walking activity to weight management is emphasized.

\section*{PHE 126 Boot Camp ... 1}

The total body is targeted by toning and strengthening the major muscles of the upper and lower body while challenging the cardiovascular system through fast-paced cardiovascular exercises.

\section*{PHE 127 Cardio Core Strength ... 1}

A combination of Yoga, Pilates, and weighted fitness activities on the stability ball to challenge and develop cardio and muscle strength.

\section*{PHE 128 Disc Golf ... 1}

Disc Golf is a lifetime recreational game suitable for youth to senior citizens. It is played on disc golf courses using elevated baskets as holes, tee areas and various weight flying discs as drivers and putters. The structure of the game is the same as golf. The objective is to throw at each hole using the fewest attempts and is completed when the putt lands in the basket. The score is recorded and players move to the next tee to attempt the next hole. The player with the lowest score at the end of the course, wins the game.

\section*{PHE 129 Pickleball ... 1}

Pickleball is a lifetime recreational court game suitable for youth to senior citizens. It is played inside or out on a court using paddles, balls and a low net. The structure of the game court is the same size as a doubles badminton court.

\section*{PHE 130 Beginning Rock Climbing ... 1}

Safety and rock climbing techniques using indoor artificial cliff. All climbing done while wearing safety harness.

\section*{PHE 133 Beginning Cardio Kickboxing ... 1}

Muscle conditioning and cardiovascular endurance gained through martial arts and boxing moves. Choreographed to music. Written component may be required.

\section*{PHE 135 Ballet Conditioning ... 1}

Principles of fitness are developed using various ballet conditioning exercises. Strength and endurance are targeted as well as an understanding of body alignment and muscle balance are emphasized.

\section*{PHE 137 Scuba ... 1}

Safety and scuba diving techniques both in classroom and indoor pool. Course does not earn certification, but students can earn certification immediately afterward by paying for and passing open-water check-out dive. Students should know they might be asked to get further approval from a physician before being allowed to participate.

\section*{PHE 140 Introduction to Dance ... 3}

Historical overview of dance as social and artistic form of expression with emphasis on understanding contemporary dance. Covers importance of dance in American society. No dance training required. Lecture and activity components.

\section*{PHE 141 Stretch and Strengthen ... 1}

Stretching and strengthening exercises from dance world appropriate for dancers and sports enthusiasts. A written component may be required.

\section*{PHE 143 Tap Dance I ... 1}

Basic steps of tap technique. Tap combinations will develop an understanding of coordination, rhythmic variations, and performance skills. Tap shoes are required.

\section*{PHE 144 Modern Dance I ... 1}

Basic movement course emphasizing beginning and essential elements of dance. Explores technique and terminology. Excellent course for beginning dancers, theater students, and those who wish to teach creative movement or dance.

\section*{PHE 145 Jazz Dance I ... 1}

Jazz techniques designed to give a firm grasp of basic movement, musicality, and strength.
PHE 146 Modern Dance II ... 1
Prerequisites: PHE 144
Applies principles of dance techniques to performance movement and various modern dance techniques. Also good for experienced dancers trying modern dance.

\section*{PHE 147 Jazz Dance II ... 1}

Prerequisites: PHE 145 or permission from instructor.
Techniques and movements developed further to facilitate performance ability or just for fun.

\section*{PHE 160 Golf ... 1}

Safety, rules, course etiquette, grip, stance, and swing. Time spent on practice putting green, driving range, and in actual play.

\section*{PHE 165 Current Topics: Selected Activities ... 1}

Variable content to develop lifetime skills in sports, fitness, and/or leisure activities. Activities vary every eight weeks, reflecting newest trends. Same activity may be taken no more than twice for graduation credit.

\section*{PHE 204 Introduction to Recreation and Leisure ... 3}

Introductory exploration of the recreation and leisure industry, including its history and philosophy. Students will explore the scope, values, professional responsibilities and career opportunities of the field.

\section*{PHE 205 Foundations of Physical Education, Health and Sport ... 3}

Introductory professional course for those exploring the fields of physical education, health and sport. Designed to provide opportunities to explore history, scope, values, professional responsibilities, and career opportunities.

\section*{PHE 206 Foundations of Sport Management ... 3}

The course is designed to introduce students to the field of sport management. Students will be exposed to areas of within the sport management profession which include human resources management, ethics, law, facility management, marketing, economics, and finance and event management. Students will also be introduced to academic and career opportunity in the sport management profession.

\section*{PHE 208 Outdoor Recreation and Leadership ... 3}

An introduction to outdoor recreation. Identifies and demonstrate an understanding of the value, meaning and benefits of outdoor recreation experience. Includes outdoor adventure leadership experiences. Natural resources, state and federal agencies, governmental and private-sector impacts will be explored as well as outdoor activity and safety skills attained.

\section*{PHE 211 Tennis ... 1}

\section*{PHE 213 Circuit Training ... 1}

Prerequisites: PHE 118
Muscle strengthening using series of exercise machines.

\section*{PHE 214 Racquetball ... 1}

Game played on indoor court using racquet and hard rubber ball. Eye protection recommended.

\section*{PHE 215 Step Aerobics ... 1}

\section*{Prerequisites: PHE 118}

Develops fitness and aerobic capacity by stepping on and off small raised platform repeatedly. Written component may be required.

\section*{PHE 216 Muscle Conditioning ... 1}

Muscle strengthening using available techniques and materials. Written component may be required.

\section*{PHE 218 Fitness Center II ... 1}

\section*{Prerequisites: PHE 118}

Continued use of selectorized weight equipment and cardiovascular equipment upon review of individual progress in Fitness Center I. Exploration of various fitness variables such as Body Mass Index, body fat analysis, strength levels, and flexibility range will help each to understand fitness level and develop personal program. These activities fulfill the written component.

Continuation of PHE 114. Challenge will include more complicated patterns and higher intensity work level. Written component may be required.

\section*{PHE 221 Self-Defense I ... 1}

Unarmed response to dangerous situations using basic fundamentals of defense. Equal time given to mental preparedness and emotional coping with acts of violence. Flexibility and physical conditioning as it applies to self defense. May require written component.

\section*{PHE 222 Beginning Tae Kwon Do ... 1}

Basic instruction in group setting by master of this ancient form of discipline and self-defense. Written component may be required.
PHE 230 Intermediate Rock Climbing ... 1
Prerequisites: PHE 130
Continuation of PHE 130.
PHE 231 Self-Defense II ... 1
Prerequisites: PHE 221
Follow-up class to Self Defense I. More advanced situational responses utilizing fundamental skills learned in PHE 221. May require written component.

\section*{PHE 232 Intermediate Tae Kwon Do ... 1}

Prerequisites: PHE 222
Continuation of PHE 222. Written component may be required.

\section*{PHE 233 Intermediate Cardio Kickboxing ... 1}

Prerequisites: PHE 133
Continuation of PHE 133. Muscle conditioning and cardiovascular endurance gained through martial arts and boxing moves. Choreographed to music. Written component may be required.

\section*{PHE 240 Creative Dance for Children ... 3}

For preschool and elementary teachers; curriculum planning using appropriate dance for children at several stages of motor development. Techniques emphasize self-expression of children as they learn to move and move to learn.

\section*{PHE 250 History and Philosophy of Physical Education and Sport ... 3}

History and philosophy of physical education and sport from ancient civilization to the 21 st century. Explores changing thought regarding the physical body and the development of physical education.

\section*{PHE 251 Coaching Principles \\ 3}

Seminar course presenting important principles of coaching sports for novice and veteran coaches. Emphasizes planning, organization, teaching, curriculum design, and risk management. Students completing the course will be eligible to earn coaching certification through the American Sport Education Program (AESEP). Spring and Summer.

\section*{PHE 252 Nutrition for Sports Performance \\ 3}

Concept and components of nutrition as it relates to physical activity, exercise, and the athlete. A personalized sports specific nutrition action plan will be developed.

\section*{PHE 270 Sociological Aspects of Physical Education and Sport \\ 3}

Introduction to diverse aspects of sports and sports studies. Study of how culture, values, society, and physical education/sport influence one another. Applied issues include legal, political, economic, cultural, and educational aspects of physical education and sport programs in schools and society.

\section*{PHE 275 Psychological Aspects of Physical Education and Sport ... 3}

Introduction to applied sport psychology, mental aspects of sports, and contemporary performance enhancement techniques. Includes theory and practice of sport psychology with mental aspects of training and competition, mental training techniques for psychomotor performance, and basic issues of performance psychology. Study of the following aspects of psychology as they influence performance: learning, practice, motivation, anxiety, perception, motor control, social facilitation, cohesion, retention, transfer, reinforcement, and leadership.

\section*{PHE 280 Women's Fast-Pitch Varsity Softball ... \\ 1}

Prerequisites: Permission of instructor.
Enrollment limited to members of varsity team.

\section*{PHE 282 Women's Fast Pitch Varsity Softball II ... 1}

Prerequisites: Permission of instructor, PHE 280

Women's Fast-Pitch Varsity Softball II is limited to second year members of the varsity team. Credit awarded for varsity athletes during required practices/game season.

\section*{PHE 283 Women's Varsity Soccer ... 1}

Prerequisites: Permission of instructor
Limited to members of the women's varsity soccer team. Awards credit for varsity athletes during the required practices/game season. PHE 284 Women's Varsity Soccer II ... 1
Prerequisites: Permission of instructor, PHE 283
Continuation of PHE 283. Women's Varsity Soccer II is limited to second year members of the varsity team. Credit awarded for varsity athletes during the required practices/game season.

\section*{PHE 290 Men's Varsity Baseball ... 1}

Prerequisites: Permission of instructor.
Enrollment limited to members of varsity team.
PHE 292 Men's Varsity Baseball II ... 1
Prerequisites: Permission of instructor, PHE 290
Continuation of PHE 290. Men's Varsity Baseball II is limited to second year members of the varsity team. Credit awarded for varsity athletes during required practices/game season.

\section*{PHE 293 Men's Varsity Soccer ... 1}

Prerequisites: Permission of instructor.
Limited to members of the men's varsity soccer team. Awards credit for varsity athletes during required practices/game season.
PHE 294 Men's Varsity Soccer II ... 1
Prerequisites: Permission of instructor, PHE 293
Continuation of PHE 293. Men's Varsity Soccer II is limited to second year members of the varsity team. Credit awarded for varsity athletes during required practices/game season.

\section*{Physical Science}

\section*{PHY 105 Environmental Geology 3}

Examination of geologic processes and hazards that influence human activities and the geologic aspects of pollution and wastedisposal.

\section*{PHY 107 Environmental Geology Laboratory ... 1}

Exercises focus on environmental and social issues relevant to environmental problems and the effects of human interaction in geologic processes.

Corequisites: PHY 105-Environmental Geology.

\section*{PHY 111 Introduction to Physical Science ... 3}

Introduces the basics in a variety of scientific disciplines including classical (Newtonian) physics, energy, matter and heat, wave behavior, electricity and magnetism, modern physics (the atom and nucleus), geology, and astronomy. Basic high school math/algebra is utilized in portions of this course.

\section*{PHY 113 Introduction to Physical Science Laboratory ... 1}

Laboratory reinforces topics discussed in Physical Science lecture (PHY 111) by utilizing hands-on experimentation.
Corequisites: Preceded or accompanied by PHY 111.

\section*{PHY 125 Introduction to Physical Geology ... 3}

Introduces a basic understanding of topics in physical geology including the unifying theory of plate tectonics, discussions of Earth materials (rocks and minerals), internal processes (volcanism, earthquakes), surface processes (surface and ground water, weathering, erosion), and geologic time. Campus outings will be incorporated to emphasize Missouri geology.

\section*{PHY 127 Introduction to Physical Geology Laboratory ... 1}

Laboratory reinforces topics discussed in Physical Geology lecture (PHY 125) by utilizing practical experimentation and observations.
Corequisites: Preceded or accompanied by PHY 125.

\section*{PHY 130 Astronomy .. 3}

Nonmathematical introduction to astronomy designed primarily for non-science majors. Topics include the history and cultural impact of astronomy, properties of solar system, and stellar structures. Supplemented by occasional hours of evening observation.

\section*{PHY 131 Astronomy Laboratory ... 1}

Analysis and interpretation of astronomical data and observations with telescopes. No prior knowledge of astronomy assumed.
Corequisites: Preceded or accompanied by PHY 130 - Astronomy.

\section*{PHY 145 (previously PHY 225) Historical Geology ... 3}

Introduces an understanding of the history of Earth"s development including identification and interpretation of sediments, sedimentary rocks and rock structures, environments of deposition, major tectonic and depositional events of North America, and the evolution of life. Campus outings will be incorporated to emphasize Missouri geology.

Corequisites: PHY 147

\section*{PHY 147 (previously PHY 227) Historical Geology Laboratory ... 1}

Exercises in interpreting Earth's history by examination of sediments, sedimentary rocks, geologic time, and identification and taxonomic classification of fossils.

Corequisites: PHY 145

\section*{PHY 150 General Physics I ... 3}

Prerequisites: MAT 150, or MAT 160
Survey of kinematics, dynamics, energy, momentum, rotational motion, fluids, and thermodynamics. Non-calculus in approach. Three hours of lecture-recitation and two hours of laboratory per week.

Corequisites: PHY 153
PHY 151 General Physics II ... 3
Prerequisites: PHY 150, PHY 153
Begins with wave motion, but emphasis on electricity and magnetism. Treats geometric and wave optics. Non-calculus in approach. Three hours of lecture-recitation and two hours of laboratory per week.

Corequisites: PHY 154

\section*{PHY 153 General Physics I Laboratory ... 1}

Experimental component of PHY 150.
Corequisites: PHY 150

\section*{PHY 154 General Physics II Laboratory ... 1}

Prerequisites: PHY 150, PHY 153
Experimental component for PHY 151.
Corequisites: PHY 151

\section*{PHY 250 Engineering Physics I ... 5}

\section*{Prerequisites: MAT 180}

Calculus-based course that teaches fundamentals of mechanics, heat and sound. First of a two-semester sequence required for physical sciences and engineering degrees.

\section*{PHY 251 Engineering Physics II ... 5}

Prerequisites: MAT-230 and PHY-250

A calculus-based course that teaches that fundamentals of electricity, magnetism and optics. Second in a two-semester sequence required for physical sciences and engineering degrees.

\section*{PHY 290 Undergraduate Research ... 1-3 hrs}

Prerequisites: Consent of Instructor.
Introduction to research techniques and methods used in scientific experimentation. Summer

\section*{Political Science}

\section*{POL 101 American Government 3}

Basic concepts of political science with major emphasis on origin, principles, organization, and nature of American federal system and its politics. POL 101 complies with provisions of Section 170.011 RsMo.

\section*{POL 102 State and Local Government ... 3}

Examines structure, functions, and operation of American state and local government within context of federalism. POL 102 complies with provisions of Section 170.011 RsMo.

\section*{POL 201 International Relations .. 3}

Prerequisites: Any POL, HIS, or GEO.
Study of factors shaping relationships among nations with emphasis upon developing nations and economic, political and environmental issues.

\section*{POL 210 Comparative Politics ... \\ 3}

Prerequisites: Any POL, HIS, or GEO.
Analysis of ideologies, political cultures, and governmental structures of several different countries. Political systems of variety of nations chosen for study.
POL 220 Middle Eastern Politics3

Survey of Middle Eastern countries as well as regional issues and conflicts. Explores political development of the region, including discussions of Islam, nationalism, and international intervention.

\section*{POL 255 European Politics and Cultures ... 3}

Field course about European politics, history, and cultures in the context of a study tour. Explores the history of Europe and future of the European and future of the European Union through readings, films, writing assignments, and other activities. Among cultural issues, deals with the questions of what is ?Europe.? Specific course objectives outlined in learning agreement with the instructor.
POL 280 Modern Britain ... 3
An introduction to the major aspects of political/social life in modern Britain: social stratification, the British political infrastructure, and dealing with published materials on British socio-political issues.

\section*{POL 296 Political Science Internship ... 3}

Prerequisites: POL 101 or POL 102, and instructor's permission.
Students placed in participatory position in government office or community organization. Requires research paper relating to some aspect of internship.

Corequisites: 2.5 GPA and sophomore standing.

\section*{POL 299 Topics in Political Science ... 3}

Prerequisites: Instructor's permission.
Exploration of one topic selected by department. Introduction to research techniques and seminar approved as integral part of scholarship.

\section*{Practical Nursing}

\section*{NPN 100 Personal and Vocational Concepts \\ 1}

Prerequisites: Acceptance into practical nursing program.

Role of LPN in relationship to other members of health care team. Includes nursing history, professional ethics, and interpersonal relations in today's health care setting.
Corequisites: NPN 101, NPN 111, NPN 121

\section*{NPN 101 Fundamentals of Nursing ... 7}

Prerequisites: Acceptance into practical nursing program.
Emphasis on nursing process as students apply principles of physical, biological, and social sciences. Introduction of basic nutrition and pharmacology. Presents elements of health and disease. Introduces basic concepts of nursing.
Corequisites: NPN 100, NPN 111, NPN 121, BIO 240, BIO 243, and ENG 096 or ENG 101.

\section*{NPN 102 Maternal-Child Nursing ... 6}

Prerequisites: BIO 240, BIO 243, ENG 096 or ENG 101, NPN 100, NPN 101, NPN 111, NPN 121.
Presents family centered approach to pregnancy, birth, and adaptation to extrauterine life. Examines stressors involved in labor and delivery and explores human sexuality and its role in growth and development. Present process of growth and development throughout the life span. Diseases common to the pediatric client. Explores impact on client of psychosocial, physical, and spiritual stressors. Common issues and problems encountered in individual, family, and community living. Environmental and social health factors as related to appropriate developmental stages. Summer.

Corequisites: NPN 112

\section*{NPN 111 Fundamentals of Nursing Laboratory ... 0}

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: vital signs, hygiene and medical asepsis, partial ongoing assessment (shift assessment), mobility and medication administration.

Corequisites: NPN 100, NPN 101, NPN 121.

\section*{NPN 112 Maternal-Child Nursing Laboratory ... 0}

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: sterile technique, dressing changes, urinary elimination, pediatric care and obstetrical care.

Corequisites: NPN 102

\section*{NPN 121 Fundamentals of Nursing Clinical ... 0}

Students care for patients in nursing home, health care center, or hospital. Administration of medications is a part of clinical experience. Eight clinical laboratory hours per week. Included in clinical hours are two clinical post conference hours, one hour for each day of clinical experience.
Corequisites: NPN 101, NPN 111.

\section*{NPN 151 Medical Surgical Nursing I ... 11}

Prerequisites: BIO 240, BIO 243, ENG 096, NPN 100, NPN 101, NPN 102, NPN 111, NPN 112, NPN 121.
Emphasis on human growth and development while studying human adaptive and maladaptive responses to disturbances in nutrition and fluid balance, gastrointestinal, and other body systems. Presents illnesses that interfere with these processes throughout life span with focuses on physiological, psychological, psychosocial, and spiritual aspects during each stage of development.

Corequisites: NPN 161, NPN 171, BIO 241, BIO 244, PSY 101.

\section*{NPN 152 Medical Surgical Nursing II ... 8}

Prerequisites: BIO 241, BIO 244, PSY 101, NPN 151, NPN 161, NPN 171.
Continuation of study of adaptive and maladaptive responses to internal and external stressors that interfere with wellness and require nursing care. Includes beginning management as well as disturbances in endocrine, reproductive, and other body systems. Presents illnesses that interface with these processes throughout the life span with focus on physiological, psychological, psychosocial, and spiritual aspects during each stage of development.

Corequisites: NPN 162, NPN 172.

\section*{NPN 161 Medical Surgical Nursing I Laboratory ... 0}

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: peripheral intravenous therapy, nasogastric insertion, central venous catheters, enteral feedings and ostomy care.

\section*{NPN 162 Medical Surgical Nursing II Laboratory ... 0}

Students gain comprehensive knowledge and ability to safely and accurately perform nursing skills in a safe learning environment using multi-media, textbooks, self-direction, demonstrations and lab staff assistance. Included: tracheostomy care and respiratory suctioning.

Corequisites: NPN 152, NPN 172

\section*{NPN 171 Medical Surgical Nursing I Clinical ... 0}

Students plan, administer, and evaluate nursing care to patients in both acute and extended care facilities. Observation experiences provided in operating room, recovery room, emergency room, and other hospital and community settings. Thirteen clinical laboratory hours per week. Included in clinical hours are two clinical post conference hours, one hour for each day of clinical experience.

Corequisites: NPN 151, NPN 161

\section*{NPN 172 Medical Surgical Nursing II Clinical ... 0}

Beginning management skills to plan, administer, and evaluate nursing care to patients in long term care facilities. Sixteen clinical laboratory hours per week. Included in clinical hours are two clinical post conference hours, one hour for each day of clinical experience. Forty eight hours of preceptorship is included.

Corequisites: NPN 152, NPN 162

\section*{Psychology}

\section*{PSY 101 Introduction to Psychology ... 3}

Examination of behavioral, cognitive, psychoanalytic, humanistic, and biological viewpoints in psychology. Includes learning principles and applications, perception, motivation, emotions, stress, psychobiology, personality, abnormal behavior, and approaches to therapy.

\section*{PSY 201 Child Psychology ... 3}

\section*{Prerequisites: PSY 101}

Study of human development from conception to adolescence, emphasizing both current and historical approaches to research and theory, genetic and environmental influences on development, and sequence and timing of physical, mental, and personality development throughout years of childhood.

\section*{PSY 210 Human Growth and Development ... 3}

\section*{Prerequisites: PSY 101}

Survey of basis of human growth and development. Review of emotional, mental, physical, and social needs of children, adolescents, and adults. Analysis of multiple factors that influence and shape behavior and personality.

\section*{PSY 215 Adolescent Psychology ... 3}

\section*{Prerequisites: PSY 101}

Introduction to physical, mental, personality, and social developments unique to adolescence. Focus mainly on factors influencing normal development, but some abnormal behaviors discussed. Biological, psychological, cultural, and historical perspectives considered.

\section*{PSY 216 Abnormal Psychology ... 3}

\section*{Prerequisites: PSY 101}

Survey of abnormal/deviant behavior, including causes and theories of anxiety disorders, psychoses, mental retardation, drug abuse, sexual disorders, criminal behavior, and other selected topics. Includes discussion of diagnosis, prevention, and treatment of these disorders.

\section*{PSY 220 Personality Theories ... 3}

\section*{Prerequisites: PSY 101}

Study of major theories of personality with emphasis on developmental influence and integration of behavior. Theories surveyed represent dynamic, humanistic, cognitive, and behavioral perspectives. Issues such as self-concept, structure of personality, social adjustment, self-management, and maladjustment and therapy are considered within context of each theoretical system.
PSY 225 Psychology of Aging ... 3
Prerequisites: PSY 101

Examination of psychological processes of aging involving sensory, sexual, intellectual, and personality changes in later life with some attention to common mental disorders in the aged.

\section*{PSY 230 Social Psychology ... 3}

\section*{Prerequisites: PSY 101}

Study of social interaction of individuals and psychological principles and concepts involved in these relationships. Discussion of social perceptions, values, attitudes, prejudice, social influence, group dynamics, leadership, and other group processes.

\section*{PSY 240 Introduction to Applied Behavior Analysis ... 3}

\section*{Prerequisites: PSY 101}

This course is an introduction to applied behavior analysis and the application of behavioral principles and procedures to social challenges. The students will learn about the causes of behavior, basic principles and procedures, and then apply this information to specific content areas or populations.

\section*{PSY 250 Drugs and Behavior ... 3}

Prerequisites: PSY 101
This course will address the many issues related to the use of psychoactive drugs. Students will learn about the biopsychological factors that underlie drug use and abuse while they examine specific individual drugs therapeutic psychoactive properties but also how long-term and/or excessive use modifies brain function. Students will learn how to distinguish between the science of psychopharmacology and the unsubstantiated claims of media, advertising and/or drug culture.

\section*{PSY 255 Brain and Behavior ... 3}

Prerequisites: PSY 101
Examination of the human nervous system focusing on the central nervous system, the development and function of nerve cells and the relation between the brain and behavior. Topics include motivation, learning, sensation and perception, movement, emotions and brain dysfunction.

\section*{PSY 290 Special Topics in Psychology ... 1-3 hrs}

Selected studies in the field of psychology. Topics may include: psychological aspects of death, gender, issues in forensic psychology, diversity studies, preparation for marriage, child-rearing practices, and various other issues. Course may be repeated as topics vary by semester.

\section*{Reading}

\section*{RDG 080 Spelling I ... 2}

Individualized course of study presenting words with basic spelling patterns, complicated consonant patterns, and complicated vowel patterns. Word families and rules for addition of word endings included. Programmed learning techniques utilized.

\section*{RDG 081 Spelling II ... 2}

Individualized course of study presenting words with basic spelling patterns, complicated consonant patterns, and complicated vowel patterns. Word families and rules for addition of word endings included. Programmed learning techniques utilized.

\section*{RDG 083 Vocabulary Improvement ... 2}

Individualized course that provides programmed learning to guide through elements of vocabulary development. Includes directed practice in context clues, working with visually similar words and homonyms, and learning commonly misunderstood words.

\section*{RDG 084 Introduction to College Vocabulary ...}

Individualized, comprehensive course that provides programmed learning to guide through elements of college-level vocabulary. Includes Latin and Greek derivatives as well as words from fiction, drama, poetry, general literature, psychology, and foreign expressions. Emphasizes communication skills, and includes vocabulary as applied to rhetoric, figures of speech and clear, concise writing.

\section*{RDG 085 Reading Fundamentals 3}

\section*{Prerequisites: reading assessment test.}

This course is designed to help students expand the range of their reading comprehension and vocabulary skills with direct practice.

Directed practice in college vocabulary skills emphasizing communication skills, figures of speech, rhetoric, and clear and concise writing. Course is ESL friendly.

\section*{RDG 092 Reading Improvement ... 3}

Prerequisites: Course required based on assessment test reading scores or pass RDG085
Directed practice in college reading skills; emphasizes word comprehension skills including context clues, dictionary use, and word components as well as paragraph comprehension skills including locating and inferring information.

\section*{RDG 093 Introduction to College Reading ... 3}

Prerequisites: Course required based on assessment test reading scores or pass RDG 092.
Provides directed practice in development of college reading skills, emphasizing vocabulary skills, comprehension skills, advanced reading skills, and reading for study. Vocabulary skills include dictionary use, word components and etymology, context clues, and multiple meanings of words. Comprehension skills include main ideas and support words signaling key concepts. Advanced reading skills include critical reading and reading efficiency. Reading for study includes effective textbook study methods, outlining, study mapping, summarizing, and textbook graphics.

\section*{RDG 104 Reading For Non-Native Speakers ... 4}

Prerequisites: Compass ESL Listening Test score of 67 to 79 plus placement with the oral interview as required by the Academic ESL Program Coordinator.

Directed practice in college reading skills emphasizing vocabulary, comprehension, critical thinking, reading efficiency and reading across the curriculum for non-native speaking students.

Corequisites: ESL 100, ESL 103 required and a suggested corequisite of ESL 107.

\section*{RDG 106 Advanced Reading for Non-Native Speakers ... 3}

Prerequisites: ESL 103/SPE 100, and ESL 104 with a minimum grade of C or better and ESL 100
Directed practice in advanced college reading skills emphasizing discipline specific vocabulary, advanced comprehension, higher level critical thinking skills, improved reading efficiency and reading across the curriculum for second-language students.

Corequisites: ESL-105, and ESL-108 recommended

\section*{RDG 111 Reading Across the Disciplines ... 3}

Prerequisites: ACT reading test score of 19 OR Compass reading test score of 80 OR Nelson/Denny reading test score of 204 required.

Focus is on improving reading and thinking skills through skill instruction and extensive guided-practice with academic discipline-based readings.

\section*{Sociology}

\section*{SOC 101 Introduction to Sociology ... 3}

Examines relationship between individual and society in social structure of modern society. Introduction to way in which sociologists interpret and research human behavior. Covers patterns of social interaction and social influences on individual conduct.

\section*{SOC 102 Introduction to Sociological Theory \\ .. 3}

Examination of key figures in sociology. Introduction to history of sociology, sociologists, theoretical perspectives, and the classical and contemporary sociological theory and the application of theory to social groups, social interaction, and social institutions.

\section*{SOC 151 Gerontology I ... 3}

Overview of normal effects of aging including physical, psychological, and social changes. Problems associated with aging, such as increased dependence, loss of health, financial constraints, loss of friends and spouse, and altered living arrangements. Content presented from perspective of aging person and society as a whole.

\section*{SOC 201 Contemporary Social Issues 3}

\section*{Prerequisites: SOC 101}

Study of major social problems facing human groups in modern society such as deviance, inequality, war, and overpopulation. Emphasis placed on social problems that arise as result of institutional fluctuations in economy, family, government, religion, science, and technology.

\section*{SOC 210 Sociology of Health and Healthcare ... 3}

Prerequisites: SOC 101 or equivalent
Examination of the social, economic, cultural and individual factors in age related health issues. Topics include epidemiology, social structuring of age, healthcare services, policies and programs, as well as relationships between doctors and patients.

\section*{SOC 215 Marriage and the Family ... 3}

Prerequisites: SOC 101
Reviews historical development of the family and patterns of intimate relationships in modern society. Analysis of institution of family in terms of relationship to other institutions in society. Specific topics include love, dating, parenting, families in crisis, and alternative lifestyles.

\section*{SOC 221 Sociology of Art ... 3}

Prerequisites: SOC 101, ENG 101
Major trends in art examined in relationship to socio-historical developments. Art seen as both comment on and reflection of society.
Team taught by sociology instructor and art instructor.
Corequisites: Suggested corequisite: ART 101 or ART 150.
SOC 224 Sex, Gender, and Society ... 3
Prerequisites: SOC 101
Focus on analysis of women and men in society and culture. Multiple disciplines examined as means to study social processes through which sex roles develop and are acquired. Examines individual and social consequences of sex differences and sex inequality.

\section*{SOC 241 Sociology Through Literature} 3
Prerequisites: SOC 101, ENG 101
Application of sociological concepts to literature to analyze literature as social commentary. Variety of literary selections used to analyze socio-historical events and movements.
SOC 251 Aspects of Aging ... 3
Prerequisites: SOC 101
Focus on social variables and forces that affect the aging process. Topics include sociological theories of aging, technological and social change and effects on environment of older people, and prejudice and discrimination against elderly.

\section*{SOC 290 Readings in Sociology ... 3}

Prerequisites: SOC 101, ENG 101
Focus on specific social phenomenon. Topic varies depending on semester and instructor. Students encouraged to suggest topics of interest.

\section*{Spanish}

\section*{SPN 101 Spanish Language and Culture I ... 4}

Beginning Spanish course that presents basic language skills of speaking, listening comprehension, reading and writing, with emphasis on effective linguistic functioning in real situations. Opportunity provided for audio-lingual practice outside of class.

\section*{SPN 102 Spanish Language and Culture II ... 4}

Prerequisites: SPN 101 or 1 to \(11 / 2\) years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Continuation of Spanish 101.

\section*{SPN 190 Topics in Spanish Language and Culture II ... 1-3 hrs}

Exploration of special topics and/or activities in 100 level Spanish language and culture. Prerequisite and corequisite dependant on topic.

Involves travel and/or study within Hispanic or Latin American culture area. May have prerequisites and may be repeated for credit.

\section*{SPN 201 Spanish Language and Culture III ... 4}

Prerequisites: SPN 102 or \(11 / 2\) to 2 years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Follow up to SPN 102. Provides expanded opportunities for listening, speaking, reading, and writing. Opportunity provided for audiolingual practice outside of class.

\section*{SPN 202 Spanish Conversation and Composition ... 4}

Prerequisites: SPN 201 or two years minimum high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Intensive one-semester course focusing on conversational skills, grammar review and composition. Exploration of role of Hispanic world.

\section*{SPN 215 Reading in Spanish ... 3}

Prerequisites: SPN 201 or two years of high school Spanish. A grade of C or better in the prerequisite course is recommended.
Reading and discussion of various short selections and at least one complete work in the original Spanish.

\section*{SPN 220 Latin American Culture and Civilization \\ 3}

Prerequisites: SPN 202 or three to four years high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Overview of history, geography, culture and social development of peoples of Latin America. Exercises and activities reinforce and develop Spanish language skills. (Taught in Spanish.)

\section*{SPN 230 Spanish Culture and Civilization ... 3}

Prerequisites: SPN 202 or three to four years high school language study. A grade of \(C\) or better in the prerequisite course is recommended.

Overview of history, geography, culture, and social development of peoples of the lberian Peninsula. Exercises and activities reinforce and develop Spanish language skills. (Taught in Spanish.)

\section*{SPN 290 Topics in Intermediate Spanish Language and Culture ... 1-6 hrs}

Prerequisites: Dependant on topic.
Exploration of special topics in 200 level Spanish language and culture. Prerequisite and corequisite dependant on topic.
Corequisites: Dependant on topic.

\section*{Speech}

\section*{SPE 100 Pronunciation and Communication for Non-Native Speakers ... 4}

For the non-native speaker of English, this course focuses on pronunciation improvement. By learning the American style of intonation, rhythm, speech production, and syllable stress, speech will be more understandable, articulate and expressive. Small group and individual communication activities, both speaking and listening, will reinforce these skills. This course is open to non-native speakers of English who are at an intermediate level or above. Students must take the Compass ESL test.

Corequisites: ESL 100, ESL 104 and suggested Co-requisite ESL 107

\section*{SPE 101 Oral Communication \\ .. 3}

Focus on importance of communication competence in a variety of situations. Topics include verbal and nonverbal communication, listening, perception, self-concept, small group communication, and public speaking. Students required to prepare and present three to four graded oral presentations.

\section*{SPE 102 Public Speaking ... 3}

Prerequisites: SPE 101
In-depth look at art of public speaking. Expands knowledge of ideas and concepts presented in SPE 101. Focus on presenting additional types of speeches, including business and organizational, ceremonial, speeches of tribute, acceptance, and toasting.

\section*{SPE 103 Persuasion 3}

Skills necessary to become informed and critical consumer of persuasive messages. Persuasion examined through popular culture, advertising, politics, and mass media. Insights given into language use and symbols, nonverbal communication, and cultural and psychological approaches to persuasion.

\section*{SPE 104 Small Group Communication ... 3}

Study of process of group communication. Focus on group development, group roles, decision-making, leadership, power, and conflict management. How to be more productive member of group by acquiring skills to enhance group interaction.

\section*{SPE 105 Interviewing \\ 3}

Focuses on art of interviewing in variety of contexts. Topics include types and uses of questions, common question pitfalls, listening, verbal and nonverbal communication, and specialized types of interviews such as journalistic, survey, persuasive, employment, performance review, counseling, and health care.

\section*{SPE 110 Interpersonal Communication ...}

How to become more informed and skillful communicators in diverse social world and more aware of how and why misunderstandings arise in communication among people whose dissimilar backgrounds and identities lead them to have different views about what communication means and does. Topics include dealing with difficult people, expression of emotions, assertiveness training, and conflict management.

\section*{SPE 115 Voice and Diction ... 3}

Prerequisites: SPE 101
Study of the development and understanding of respiration, phonation, resonation, articulation, and diction. Credit not available for both SPE 115 and THE 115.

\section*{SPE 200 Argumentation and Debate ... 3}

\section*{Prerequisites: SPE 101}

The discovery, support, and critical evaluation of intelligent arguments and decisions. Studies argument, evidence, reasoning, and oral advocacy; includes investigation, research, and critical analysis of claims and establishment of truth through proof.

\section*{SPE 205 Gender Communication . 3}

Answers to questions that confound women's and men's attempts to communicate with each other. Topics include gender construction through one's culture, portrayal of men and women in media, male and female approaches to conversation, role of power and empowerment in marriage and families, gender relations in workplace, and men and women in education.

\section*{SPE 210 Oral Interpretation ... 3}

Prerequisites: SPE 101
Basic study of the principles of oral interpretation and their application performance. Credit not available for both SPE 210 and THE 210.

\section*{SPE 215 Intercultural Communication} 3

Explores issues related to intercultural communication process. Considers important role of context (social, cultural, and historical) in intercultural interactions. Topics include stereotyping, prejudice, ethnocentrism, social class and religious identities, folk culture, power, and intercultural conflict.

\section*{SPE 225 Professional Communication ... 3}

\section*{Prerequisites: SPE 101}

Role of and development of professional communication skills intrinsic to the workplace. Focus is on the development of theoretical and performance competencies in interpersonal communication, small group communication, organizational communication and public communication. Includes understanding organizational diversity and ethics; improving listening skills; enhancing interviewing skills; managing group meetings and teamwork; and presentation of informational and persuasive proposals via enhancement of verbal, vocal and visual strategies.

\section*{Theater/Film}

\section*{THE 115 Voice and Diction 3}

Prerequisites: SPE 101
Study of the development and understanding of respiration, phonation, resonation, articulation, and diction. Credit not available for both SPE 115 and THE 115.

\section*{THE 122 Introduction to Theater ... 3}

Emphasizes appreciation of theater as one of living arts. Surveys theater history and dramatic theory from Greeks to present Broadway Includes lectures, films and discussions on the practitioners and work. Requires attendance at live theater productions.

\section*{THE 123 Introduction to Cinema ... 3}

Introduction to history, theory and criticism of film. Explores American and European film traditions. Major genres, authors and artists, and directing and production styles. Viewing of numerous films representative of various genres and directing styles.

\section*{THE 124 History of Film ... 3}

History of cinema from late 19th century beginnings to present. Attention given its technological, economic and artistic issues. Classic films of various directors and countries. Weekly viewings required.

\section*{THE 126 Major Themes in Film \\ 3}

Focus on film theme. Among possibilities 1) genre films such as gangster film, western film and musical, 2) socially significant topics such as women and minorities in film, or 3) major styles or movements in film such as Film Noir or French New Wave. Topics change annually. Viewing time required

\section*{THE 128 Fundamentals of Acting .. \\ .. 3}

Introduction to developing oral and physical communication through exercises, improvisation, and scene work. Theories of acting introduced. Attendance at live theater productions required.
THE 140 Stagecraft ... 3
Introduction to basic fundamentals of stagecraft in scenery, lighting, costumes, and other areas of technical theater. Emphasis on practical application, with expectation to participate in technical production of college plays.

\section*{THE 143 Tap Dance I ... 1}

A beginning dance course that covers the basic tap dance techniques. Tap dance step combinations are used to develop an understanding of coordination, rhythmic variations and performance skills. Tap shoes are required.

\section*{THE 144 Modern Dance I ... 1}

A basic movement course emphasizing beginning and essential elements of dance. Course explores specific technique and terminology. Emphasis is placed on expression and creativity through dance movement.

\section*{THE 145 Jazz Dance I ... 1}

Using the basic elements of jazz dance, movements designed to increase range of motion, strength, endurance, agility, coordination, stability, line and spacial awareness will be emphasized. The dance elements of time, force, space, dynamics, expression and more will be incorporated.

\section*{THE 210 Oral Interpretation ... 3}

Prerequisites: SPE 101
Basic study of the principles of oral interpretation and their application performance. Credit not available for both SPE 210 and THE 210.

\section*{THE 228 Acting II ... 3}

Prerequisites: THE 128
Continuation of introduction to acting class. More advanced scene work and polishing of audition techniques. Attendance at live theater production required.

\section*{THE 229 History of American Theater I ... 3}

Study of American musical theater from its origins through Rodgers \& Hammerstein. Students taking this course may not receive credit for MUS 113.

\section*{THE 230 History of American Musical Theater ... 3}

Study of American musical theater from Rodgers and Hammerstein to the present.

\section*{THE 240 Introduction to Theater Design ... 3}

Prerequisites: THE 140
Introduction to theater design in areas of scenery, lighting, and costume design. Exploration of fundamentals of design conception and communication through analysis, research, writing and project work.

\section*{THE 259 Music Theater Workshop I ... 1}

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theater.

Corequisites: MUS/THE 229

\section*{THE 260 Music Theater Workshop ... 1}

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theater.
Corequisites: THE 230/MUS 230

\section*{THE 270 Acting Practicum ... 1-3 hrs}

Prerequisites: THE 128 and instructor's signature

Theories and techniques of acting and stagecraft applied in college productions.

\section*{THE 271 Stagecraft Practicum I ... 1-3 hrs}

Prerequisites: THE 140 and instructor's signature
Practical application of technical theater to college productions.

\section*{THE 299 Topics in Theater ... 1-3}

This course will be offered on an as needed basis to accommodate special projects.

\section*{Welding}

\section*{WLD 101 Introduction to Welding ... 3}

This covers basic work, health and safety information involved in the profession of welding, including the interpretation of welding symbols and sketches or drawings, and fabricating parts from sketches or drawings.

Corequisites: WLD 111

\section*{WLD 111 Thermal Cutting ... 2}

In this course students will learn to set up and perform straight square edge, shape square edge and straight bevel edge manual oxyfuel gas cuts (OFC) and plasma arc cuts (PAC) on various metals, perform OFC scarfing and gouging operations on carbon steel, and inspect and repair equipment used in cutting operations.

Corequisites: WLD 101

\section*{WLD 121 Shielded Metal Arc Welding I ... 4}

Prerequisites: WLD 101; WLD 111
In this course students will learn the basic skills and knowledge needed to set up Shielded Metal Arc Welding (SMAW) equipment, choose appropriate electrodes, and perform SMAW operations on carbon steel.

\section*{WLD 122 Shielded Metal Arc Welding II ... 4}

Prerequisites: WLD 121
This course expands on the techniques learned in WLD 121. Advanced welding techniques in Shielded Metal Arc Welding (SMAW) required of AWS Advanced level welders will be covered.

\section*{WLD 125 Welding Inspection and Testing ... 2}

Prerequisites: WLD 101; WLD 111; WLD 121
This welding class covers weld inspections and weld testing practices for the new welder; including how to examine cut surfaces and edges of prepared base metal parts; how to examine tack, root passes, intermediate layers, and completed welds.

\section*{WLD 131 Gas Metal Arc Welding I ... 4}

Prerequisites: WLD 101; WLD 111
In this course students will learn the basic skills and knowledge needed to set up Gas Metal Arc Welding (GMAW) equipment, choose appropriate electrodes, and perform GMAW-S and GMAW (spray) operations on carbon steel.

\section*{WLD 132 Gas Metal Arc Welding II ... 4}

Prerequisites: WLD 131
This course expands on the techniques learned in WLD 131. Advanced welding techniques in Gas Metal Arc Welding (GMAW) required of AWS Advanced level welders will be covered.

\section*{WLD 141 Flux Cored Arc Welding I ... 4}

Prerequisites: WLD 101; WLD 111
In this course students will learn the basic skills and knowledge needed to set up Flux Cored Arc Welding (FCAW) equipment, choose appropriate electrodes, and perform FCAW-G/GM and FCAW-S operations on carbon fuel.

This course expands on the techniques learned in WLD 141. Advanced welding techniques in Flux Cored Arc Welding (FCAW) required of AWS Advanced level welders will be covered.

\section*{WLD 151 Gas Tungsten Arc Welding I ... 4}

Prerequisites: WLD 101; WLD 111
In this course students will learn the basic skills and knowledge needed to set up Gas Tungsten Arc Welding (GTAW) equipment, choose appropriate electrodes and perform GTAW operations on carbon steel, austenitic stainless steel, and aluminum.

WLD 152 Gas Tungsten Arc Welding II ... 4
Prerequisites: WLD 151
This course expands on the techniques learned in WLD 151. Advanced welding techniques in Gas Tungsten Arc Welding (GTAW) required of AWS Advanced level welders will be covered.```


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    - Multimedia and Web Design A.A.S.
    - Multimedia C.A.
    - Multimedia C.S.
    - Network Security A.A.S
    - Networking A.A.S.
    - Networking C.A.

