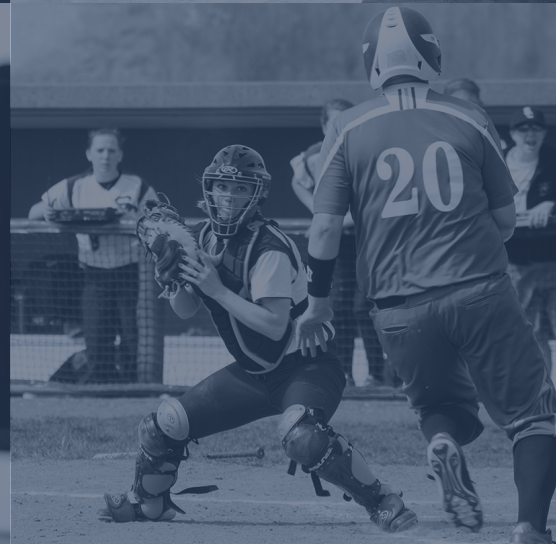




2019-20  
CATALOG



**ST. CHARLES COMMUNITY COLLEGE**

# 2019-20 CATALOG

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# ADMISSIONS & RECORDS



## CONFIDENTIALITY

## STUDENT RESPONSIBILITY

## ADMISSIONS POLICY

## PLANNING PROGRAMS OF STUDY

## COURSE LOAD

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## NON-TRADITIONAL CREDIT

## CONFIDENTIALITY

### Confidentiality of Financial Records

The General Education Provision Act of 1974, as amended by the Family Educational Rights and Privacy Act of 1974, provides for privacy safeguards for students and families by setting up guidelines for the disclosure of education records and personally identifiable information.

The law provides that financial assistance records of a student may be inspected by that student with the following exception: The Financial Assistance Office will not release to a dependent student the financial records of his or her parents without the written consent of the parents.

### Confidentiality of Student Records

In compliance with the Family Educational Rights and Privacy Act of 1974, St. Charles Community College affords students the right to inspect official records directly relating to them. The act does not permit the college to provide information regarding grades, transcripts or schedules to parents of SCC students without written consent of the student. Consent forms are available in the Enrollment Services Department.

## STUDENT RESPONSIBILITY FOR CATALOG INFORMATION

*This catalog is effective beginning Aug. 1, 2019, for the 2019-20 academic year.* Each student is responsible for compliance with the information appearing in the catalog. Failure to read the regulations and policies will not be considered an excuse for noncompliance.

## ADMISSIONS POLICY

St. Charles Community College maintains an open-admissions policy providing higher education to all persons who can benefit from its programs and courses. The college serves students from a variety of educational backgrounds. Once admitted to SCC, you may enroll in any course or program as long as individual course prerequisites are met and space for effective instruction is available. The college may guide your enrollment based on Academic Skills Assessments, interviews, previous achievement and other criteria as explained in this section. If you do not meet the standards for admission into college-level courses, you may enroll in developmental courses designed to help you strengthen your skills. These developmental courses may be offered on a credit or non-credit basis. Students applying for the programs with selective admissions criteria may be required to take additional tests for admissions purposes. Before you register for credit courses, you must be admitted to the college. You may apply for admission anytime during the year.

## PLANNING PROGRAMS OF STUDY

### Transfer and Pathway 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 Academic Advising Department concerning academic advising and the transfer process.

Suggested pathway 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.

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

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.

COURSE LOAD	FALL/SPRING	SUMMER
Full time	12 or more hours	6 or more
Part time	11 hours or fewer	5 or fewer

A freshman is any student who has completed fewer than 30 credit hours; a sophomore has completed 30 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.

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.

## 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 Enrollment Services Department.

- Credits for courses with passing grades may be accepted at the college's discretion.
- To have the credits taken at other institutions evaluated, submit a Request for Transfer Evaluation Form (PDF) to the Enrollment Services Department 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 1204  
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. \*If you are unsatisfied with the decision of the Dean you may then submit your appeal to the Vice President for Academic Affairs..
- 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. Information regarding the Missouri Department of Higher Education appeal process may be found at: <https://www.stchas.edu/academics/grades-transcripts-records/>

## NON-TRADITIONAL CREDIT (AP/CLEP)

### Types of Non-Traditional Credit

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)

The College Level Examination (CLEP) allows for the evaluation of 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 REQUIRED	HOURS 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	50	3	HIS 146

### Advanced Placement (AP)

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

#### Advanced Placement Required Scores

COURSE/ SUBJECT AREA	SCORE REQUIRED	HOURS GRANTED	SCC EQUIVALENT
Art History	4 or 5	6	ART 1500 & ART 1505
Biology	4 or 5	4	BIO 150
Calculus AB	3, 4 or 5	5	MAT 180
Calculus BC	3, 4 or 5	10	MAT 180 & 230
Chemistry	4 or 5	5	CHM 115
Psychology	3, 4 or 5	3	PSY 101
U.S. Government & Politics	4 or 5	3	POL 101
U.S. History	4 or 5	3	HIS 101
Statistics	3	4	MAT 157
Statistics	4 or 5	3	MAT 175
Computer Science A	4 or 5	3	CPT 189
Computer Science Principles	4 or 5	3	CPT 115
Environmental Science	3, 4 or 5	3	BIO 122
Macroeconomics	3, 4 or 5	3	ECO 110
Microeconomics	3, 4 or 5	3	ECO 120
Physics 1: Algebra-Based	3, 4 or 5	3	General Physics 1 (credit awarded for lecture only)
Physics 2: Algebra-Based	3, 4 or 5	3	General Physics 2 (credit awarded for lecture only)
Human Geography	3, 4 or 5	3	GEO 100 (credit will not be awarded towards the A.A.T. degree)
English Language & Composition	4 or 5	3	ENG 101
English Literature & Composition	4 or 5	3	Humanities Elective
European History	4 or 5	6	HIS 145 and HIS 146
World History	4 or 5	6	HIS 202 and HIS 203
Comparative Government & Politics	4 or 5	3	POL 201

### 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, you may 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, Certificate of Specification and the Associate of Applied Science degree. Examples of courses included Certificate of Specialization ACT 101, BUS 101 or some computer courses. Credits 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 1204).
- When meeting with an SCC academic advisor 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 advisor at the transfer institution to determine transferability.

### High School Articulation Agreements

To see the articulation agreements from the following high schools, visit [www.stchas.edu/academics/college-catalog/getting-started-scc](http://www.stchas.edu/academics/college-catalog/getting-started-scc) and click Credit Through Articulation Process.

Bowling Green  
Clopton  
Elsberry  
Fort Zumwalt  
Francis Howell  
Gasconade County-Hermann  
Lewis & Clark  
Louisiana High School  
Montgomery County RII  
North Tech High School  
Orchard Farm  
Pattonville  
Pike Lincoln Tech Center  
Ritenour  
Silex  
South Callaway RII  
St. Charles & St. Charles West High School  
Troy  
Warrenton  
Wellsville Middleton  
Wentzville

### Military Experience

Experience in the Armed Services may be considered for credit based upon recommendations of the American Council on Education Commission and the student's intended major. Submit a military transcript and you will be awarded 2 credit hours of Physical Education. Contact the financial aid officer/Veterans Services for information on obtaining a military transcript.

### Contact Information

TRANSFER SERVICES MANAGER  
636-922-8632 | [transfer@stchas.edu](mailto:transfer@stchas.edu)

DIRECTOR OF ENROLLMENT SERVICES  
636-922-8436 | [cakins@stchas.edu](mailto:cakins@stchas.edu)

ENROLLMENT SERVICES  
636-922-8246

FINANCIAL AID  
636-922-8234 | [fnaid@stchas.edu](mailto:fnaid@stchas.edu)

# TUITION & FINANCIAL ASSISTANCE



## FINANCIAL ASSISTANCE

Grants, loans, scholarships, veterans benefits and part-time employment are available to St. Charles Community College students who qualify. Most awards are based on need and require you to maintain a minimum grade point average. Most awards are made for one academic year only. Students who wish to be considered for financial assistance should apply for admission to SCC and submit an application for federal financial assistance.

For detailed information on cost of attendance, payment of tuition and fees, financial assistance, payment plans, third-party billing, refund policy and residency in the district, visit [stchas.edu/admissions](http://stchas.edu/admissions), [stchas.edu/financial](http://stchas.edu/financial) and [stchas.edu/tuition](http://stchas.edu/tuition).

# STUDENT SUPPORT SERVICES

## DEGREE AUDITS

Degree audits (a calculation of courses needed for a degree or certificate) are available in Room 1204 of the Administration Building, or students may access a computerized audit through their *mySCC* portal. The degree audit is for advisement purposes only. It is not a substitute for the official degree audit required by the registrar for graduation. It is not to be considered as an application for graduation.

## EMERGENCY SERVICES AND PHONE CALLS

If a person is seriously injured or becomes ill on campus, the community assistance 911 number or the Department of Public Safety (636-922-8545) should be called immediately. In any injury incident, whether or not it is an emergency, the Department of Public Safety should be immediately notified. An incident report must be filed with Department of Public Safety in all cases of injury and emergency. If emergency transportation and treatment at a health care facility are necessary, all costs are the responsibility of the person who is transported. Students may not receive phone calls at the college through a college phone number except in cases of emergency. In the event of an emergency, you will be contacted in class to return a phone call. The caller will be asked to provide a phone number to the Department of Public Safety and the nature of the emergency in order for the college to determine if the call warrants a student being removed from class. DPS may be reached at 636-922-8545.

## SERVICES FOR STUDENTS WITH DISABILITIES

To apply for services you should schedule an appointment with the Disability Support Services (DSS) manager. The process includes a review of your documentation and an interview with the manager. Accommodations and disability status are approved on a case-by-case basis. Accommodations are arranged to ensure access to all programs/courses at SCC.

New students should apply to the college online and complete their assessment test or submit ACT scores before meeting with the DSS manager. Each section of the assessment test is untimed and is taken on a computer. An online calculator is allowed for the math section. For more information, contact the Assessment Center. If accommodations are approved for the assessment tests, they will be provided through DSS and must be scheduled ahead of time.

### Contact Information

DISABILITY SUPPORT SERVICES MANAGER  
636-922-8247 | [pgeorge@stchas.edu](mailto:pgeorge@stchas.edu)

## CAREER SERVICES

Career counselors are here to help you with all aspects of your job search as well as career exploration and career research. Many students are undecided about their future major or career. Career counselors can assist you with this decision-making process by providing one-on-one career counseling, administering and interpreting career tests, and teaching you how to use career resources in our office and online.

If you are looking for a job or internship, career counselors can help you write your resume, prepare for job interviews, and learn how to use networking and online resources to secure a job or internship.

Please visit us in the Administration Building, Room 1113. You may also contact us at 636-922-8244 or [jschnipper@stchas.edu](mailto:jschnipper@stchas.edu) (Jenny Hahn Schnipper, Career Services Manager) or 636-922-8243 or [jhawthorne@stchas.edu](mailto:jhawthorne@stchas.edu) (Jennifer Hawthorne, Career Counselor) to schedule an appointment with a career counselor.

**You will find additional information at:**  
[stchas.edu/academics/career-services-center/](http://stchas.edu/academics/career-services-center/)

# COLLEGE POLICIES

## ACADEMIC AND GENERAL



### STUDENT RESPONSIBILITIES

### STUDENT CONDUCT CODE

### GRADUATION REQUIREMENTS

### REPEATING A COURSE

### COURSE AUDITS

### ATTENDANCE

### WITHDRAWAL

### STUDENT RESPONSIBILITIES

We believe that students are responsible for their learning. Similarly, student rights accompany exercise of responsibility for learning.

- Selecting a program of study that is consistent with his/her abilities and interests.
- Selecting coursework that corresponds with his/her program of study and readiness level.
- Enrolling in a schedule of classes appropriate to the time and effort that he/she will allocate to academic requirements.
- Being attentive and participating in class activities.
- Completing all class assignments as directed by the instructor or course syllabus.
- Complying with all college announcements and requirements found in the catalog and official publications.
- Seeking appropriate support services to improve his/her level of academic achievement and to enhance the quality of college life.
- Behaving in a humane and ethical manner both in the classroom and in all communication and contact with the instructor, other staff members and other students.
- Students are expected to attend all class sessions and report to each session on time. If an absence occurs, students are responsible for all work missed. Excessive absences that jeopardize successful completion of the course (as outlined in the course syllabus) may result in a lowered or failing grade in the class.

### STUDENT CONDUCT CODE

Students enrolling at SCC are to conduct themselves in a manner compatible with the educational purposes of the college. If you fail to do so, the college will institute appropriate disciplinary action, which may include dismissal. Specifically, students are expected to comply with federal, state and local laws concerning activities prohibited on public school property and at college-sponsored functions. Civil disobedience, assault, forgery, gambling, immoral conduct, libel, theft, use and sale of alcoholic beverages and other dangerous drugs, vandalism, or possession of firearms, explosives, dangerous chemicals, or other weapons are prohibited while on college property or at a college-sponsored event. Students who hold a conceal and carry permit or endorsement may not bring firearms on campus.

### GRADUATION REQUIREMENTS AND PROCEDURES

#### Graduation Requirements

The requirements for graduation at St. Charles Community College are those specified in the college catalog at the time a student enrolls or of any subsequent catalog as long as the student enrolls in at least one fall or spring term each academic year (August-May). If you change programs, you will be expected to meet the graduation requirements of the catalog in effect at the time of your program change. (See sections on Graduation Requirements in the chapter on Academic Programs – Degrees and Certificates in this catalog.)

In the case of curriculum changes, academic deans may make adjustments to your educational plan to meet program requirements. Every effort will be made to count earlier course work in a way most beneficial to the student in fulfilling current requirements. Students are subject to all policies/regulations stated in the most recent catalog.

#### Applying for Graduation

To be eligible for graduation from SCC, you must adhere to the following:

- File an application for graduation with the Enrollment Services Department during the semester before you wish to graduate. **Check the current academic calendar for specific application deadlines.** The calendar can be found online at [stchas.edu/events](http://stchas.edu/events). A summer graduate who wishes to participate in the May commencement ceremony must file an application for graduation by March 1. The deadlines allow the college ample time to review student applications, to ensure that all requirements for graduation have or will be met, and to allow students the time to make course adjustments before the close of registration of their final semester.
- Submit the \$30 graduation fee. This fee is non-refundable if degree requirements are not met by graduation. You will be required to pay this fee each time you apply for graduation. However, if you decide to postpone your graduation to the following semester, the fee is transferable so long as the Enrollment Services Department is notified in writing three weeks before your original anticipated date of graduation.
- Meet all requirements of the degree/certificate program as outlined in the college catalog, with at least 15 of these credit hours earned at SCC.
- Earn a cumulative grade point average of at least 2.0 and be in good academic standing.
- Resolve all financial obligations to the college and return all library and college materials.
- Students who plan to earn a degree at SCC will need to meet the requirements of the catalog in effect when they first enrolled or of any subsequent catalog as long as they enroll in at least one fall or spring term each academic year (August-May).

### Issuance of Diplomas

Diplomas earned for December and May graduates will be issued shortly after the May commencement. August diplomas will be mailed at the end of August. Degrees earned in December will be posted on the student transcript at the time all degree requirements are met.

### Commencement Exercises

Commencement exercises are held annually in May. Students who are graduating in May and graduates from the previous December may participate in the exercises, along with those who have applied for and been tentatively accepted to graduate in the coming August.

### Earning More Than One Degree

- A separate application must be filed for each degree or certificate whether they were earned at the same time or during different semesters.
- The specific requirements of each degree or certificate must be completed.
- If two degrees or certificates are earned at the same time, the graduation fee for the second is \$10. If the second degree or certificate is earned in another semester, the \$30 graduation fee must be paid each semester that a degree is awarded.

### REPEAT OF A COURSE

You may repeat one time any credit course for which you did not receive at least a "C" for graded courses, or a grade of "P" for pass/fail courses. Exceptions to this rule include PE activity courses and some music courses. If the course can be repeated and have multiple attempts count toward graduation hours, then all attempts count in the cumulative GPA. "Ws" or withdrawals from a course are treated as an attempt. All grades from each attempt are recorded on the transcript, but SCC will use the higher grade to calculate the grade point average (GPA). Some colleges and universities will recalculate the grade point average for admissions purposes and include both grades earned. Students wishing to attempt a course for the third time must speak with an advisor or the department chair to obtain permission to enroll. In general, courses may not be attempted a fourth time. Where courses are a part of a sequence (English, math, reading), students may enroll in or audit the prerequisite course in order to acquire the prerequisite skills necessary for a successful fourth attempt. For financial assistance eligibility, all attempts will count towards maximum hour limits and completion ratio.

### AUDITING A COURSE

If you wish to attend a course without taking an examination or receiving credit for the course, you may register on an audit basis. Students who register on an audit basis will pay the regular tuition rate and must meet the course prerequisites or receive special permission from the instructor. Audit students must adhere to the same policies and procedures as all students. If you wish to change from audit to credit or from credit to audit after the course is under way, you must process the change through the Enrollment Services Department within the first four weeks of classes (prorated for summer classes). Students cannot count audited courses to establish full-time status.

### CHANGE OF ACADEMIC PROGRAM

You may petition to change your program (or major) by filing a form available in the Enrollment Services Department, or online at [stchas.edu/docs/pdfs/15-0528-ENR-Change%20of%20Degree%20Form.pdf](https://stchas.edu/docs/pdfs/15-0528-ENR-Change%20of%20Degree%20Form.pdf)

### ATTENDANCE

#### General Policy

The college has no plan of recognized class 'cuts' or absences. You should attend all class meetings in which you are enrolled. Excessive absence may be sufficient cause to fail the course. For distance classes, "attendance" will be defined as active participation in the course as described in the individual course syllabus. The final decision as to what constitutes excessive absence from a class is left to the instructor and will be outlined in the course syllabus. Students should discuss any absences with their instructor. Students who are absent from classes while participating in college-sponsored events or activities will not be automatically penalized for the absence. It is the expectation that students will normally be excused from class except under extraordinary circumstances.

Students must complete the following procedures to determine the outcome of their absence for each missed class:

- 1) Students should make every effort to schedule college-sponsored activities around classes.
- 2) Students are responsible for notifying their instructors in advance of the absence. When possible, contact your instructor at least two weeks before the event/activity. Face-to-face interaction between student and instructor is preferred.
- 3) In advance of the activity, students must provide their instructor(s) a completed Event Form for each missed class. Student Event Forms are available to student athletes in CC 104 and for members of clubs and organizations in CC 102. This form will help you discuss the potential effects of the absence with your instructor.
- 4) Students are expected to make up any classwork in a time frame to be determined by the instructor. When a test is scheduled for the day of the expected absence, students should discuss with their instructor how to make other arrangements to take the test. You should use the ACE Center for additional help and the Assessment Center for make-up tests.
- 5) If you fail to inform the faculty in advance of the expected absence, the absence may or may not be accommodated at the instructor's discretion.
- 6) Absences for the student-related activity will be reflected in your attendance record.

### WITHDRAWAL FROM COURSES

All students who wish to drop a course or courses must obtain and complete an Add/Drop Form from the Enrollment Services Department. It is the student's responsibility to return the completed Registration Form to the Enrollment Services Office. You may also drop online through your mySCC Portal.

Discontinuing a course will affect your transcript (permanent record) as follows: A student who withdraws officially from a course before the end of the 10th week of class meetings will receive a "W" for the course. If you simply stop attending class and do not officially withdraw from the course, you will receive an "F" grade for the course. Leaving the Registration Form with your instructor does not constitute an official withdrawal from the course. The form must be returned to the Enrollment Services Department in accordance with withdrawal procedures and dates. A listing of important course withdrawal dates may be obtained in the Enrollment Services Department or online at [stchas.edu/calendar](https://stchas.edu/calendar). These dates are published in the credit class schedules and on the college website. The approved withdrawal dates are prorated for courses fewer than 16 weeks in length and for interim and summer sessions. The Veterans Administration may interpret the withdrawal from courses differently, so veterans should check with the Financial Assistance Office.



# GRADING AND ACADEMIC HONORS



## GRADING SYSTEM

## GRADE GRIEVANCE POLICY

## REVIEW OF ACADEMIC STATUS

## SATISFACTORY ACADEMIC PROGRESS

## SCHOLASTIC HONORS

## TRANSCRIPTS

## OUTCOMES ASSESSMENT

## GRADING SYSTEM

Grading symbols and corresponding grade points are listed below. Some symbols are not grades but designations of administrative action regarding course work.

**A (Excellent)** Student has demonstrated outstanding proficiency in mastering course objectives. (4 grade points per credit hour in computation of grade point average.)

**B (Above Average)** Student has demonstrated above-average proficiency in mastering course objectives. (3 points)

**C (Average)** Student has demonstrated average proficiency in mastering course objectives. (2 points)

**D (Below Average)** Student has demonstrated below-average proficiency in mastering course objectives. (1 point)

**F (Failing)** Student has not demonstrated a minimum passing proficiency in mastering course objectives (0 points)

**I (Incomplete)** Due to extenuating circumstances, a student may be given an extension of time by the instructor to complete course objectives. The "I" can be issued only at the discretion of the instructor. Once you are issued an "I," you may not withdraw from the course in which the "I" was issued. The "I" must be made up by the midterm of the following semester or it will become an "F" grade. The incomplete must be completed with the instructor who originally issued the "I." The "I" does not count in computation of grade point average.

**P (Pass)** Student has completed the course work satisfactorily. This mark is used for most developmental courses and other courses at the discretion of the college. (Does not count in computation of grade point average.)

**R (Re-enroll)** The student has made satisfactory progress but should re-enroll until the course objectives are completed. This mark is used for developmental courses only. (Does not count in computation of grade point average.)

**V (Audit)** Student's final registration in the course was on an audit basis (no credit). (Does not count in computation of grade point average.)

**W (Withdrawal)** A "W" is not a grade, but an indication of administrative action requested by the student. You must officially withdraw from a course before the end of the 10th week of classes. For courses shorter than the normal semester, the withdrawal period will be prorated. A "W" may not be changed to a grade. (Does not count in computation of grade point average.)

**AW (Administrative Withdrawal)** The grade of "AW" will be assigned to those courses that have been administratively withdrawn from a student's record. A grade of "AW" will not count in a student's grade point average but will count in their overall completion ratio. See Board Policy 439 Withdrawal.

**Z** Administratively unable to give a grade at this time.

## GRADE GRIEVANCE POLICY

Students with concerns about grades should, whenever possible, first approach the instructor for clarification/resolution. Concerns about final grades must be expressed by the end of the next regular semester. If, after contacting the instructor, you still have concerns, you should address them to the appropriate program coordinator and/or department chair who will work with you and the instructor to resolve the matter. If the department is unable to remedy the situation, you should address your concerns to the division dean. If resolution still is not achieved, you may then appeal in writing to the Office of Academic Affairs and Enrollment Management. Anonymous calls or unsigned letters will not be acknowledged. Only concerns expressed by the individual student involved will be addressed.

## REVIEW OF ACADEMIC STATUS

The college recognizes that extenuating circumstances occur from time to time that may warrant further review of a student's academic progress. Contact the Enrollment Services Department for more information.

NOTE: Students with concerns about course requirements, class procedures, teaching styles or grades should follow the procedure outlined in the Procedure for Addressing Student Concerns section of the catalog.

## SATISFACTORY ACADEMIC PROGRESS

St. Charles Community College (SCC) has academic standards that all students must meet. It is necessary for students to maintain a sufficient grade point average (GPA) to graduate from SCC and transfer to a four year college or start a career. Students who meet SCC academic standards are making "satisfactory academic progress" and are in "good standing."

To stay in "good standing," students must maintain a cumulative GPA of 2.0 after they have earned 15 college credit hours or more at SCC.



## WHAT HAPPENS IF MY GPA DROPS BELOW 2.0?

**Academic Warning:** A student is placed on academic warning when their cumulative GPA falls below 2.0 for the first time. Students are unable to register for additional courses until they have completed a mandatory online college success workshop through Canvas.

**Academic Probation 1:** A student is placed on mandatory Academic Probation 1 when their cumulative GPA falls below 2.0 in two consecutive terms. The student must complete a mandatory online workshop through Canvas. The student is also required to enroll for classes with an academic advisor after completion of the workshop and is limited to a maximum of 13 credit hours.

**Academic Probation 2:** A student is placed on Academic Probation 2 when their cumulative GPA remains below a 2.0 for a third consecutive term. The student must complete a mandatory online workshop through Canvas. The student is also required to enroll for classes with an academic advisor after completion of the workshop and is limited to a maximum of 13 credit hours.

**Academic Suspension:** A student is placed on Academic Suspension when their cumulative GPA remains below a 2.0 for a fourth consecutive term. Students will be prohibited from enrolling in courses the semester following the suspension status.

**Academic Dismissal:** A student will no longer be allowed to attend SCC unless they are academically reinstated by (the vice president of Academic Affairs). Students must wait a minimum of one semester to appeal this status (summer semester excluded). For a detailed list of procedures to apply for academic reinstatement, contact the office of Academic Affairs at 636-922-8358.

## WHAT IF I GET SUSPENDED?

Suspended students will be required to sit out a semester to reevaluate their academic plans. Students may return the following semester. A meeting with the Director of Academic advising is required to enroll in classes. Enrollment is restricted to 13 credit hours.

Students wishing to appeal the layout period and remain continuously enrolled, may make an appointment to speak with the director of academic advisor at 636-922-8477.

After returning from suspension students are required to maintain a 2.0 term GPA each semester that they attend SCC. A meeting with an academic advisor is required to enroll for classes.

Students who do not earn at least a 2.0 term GPA will be academically dismissed.

When a student's cumulative GPA reaches a 2.25 or above, they are placed on a less restrictive status and are then able to enroll for courses without meeting with an academic advisor.

## SCHOLASTIC HONORS

Full-time students who earn a 3.50 or above semester grade point average in 12 or more semester hours of credit and part-time students who earn at least a 3.50 GPA for each cumulative 12 credit hours will be named to the Dean's List. Developmental courses, pass/fail courses, transfer credits and courses in which incomplete grades were received do not count toward the credit hours.

The Associate of Arts, Associate of Fine Arts, Associate of Arts in Teaching, Associate of Science, and Associate of Applied Science degrees and certificates will be granted with the following designations to candidates of superior academic achievement:

Cumulative GPA of at least 3.50-3.74 – Honors

Cumulative GPA of 3.75-3.99 – High Honors

Cumulative GPA of 4.0 – Highest Honors

Indication of scholastic honors at the commencement ceremony will be based on the previous fall semester cumulative GPA.

## TO REQUEST A TRANSCRIPT

We now offer electronic transmission of official transcripts. Students can track their status and be notified via text or email when the transcript has been sent.

You may request a transcript by accessing this link: [GetMyTranscript.org](http://GetMyTranscript.org). In addition, in-person requests can be made. We do not accept FAXED requests. Use the Transcript (PDF) and Enrollment Verification Form (PDF).

## OUTCOMES ASSESSMENT

SCC is committed to the assessment of college programs and services to improve and maintain their quality and effectiveness. Classroom and program activities, including surveys and focus groups, will be used to assess the outcomes of college education.

Students who complete career-technical programs will be assessed on their mastery of essential occupational skills and general education knowledge. The method of assessing these skills will vary by discipline. Some of the methods used by the programs will be portfolios, culminating projects, field specific national tests and tests developed by the department.

### Contact Information

DIRECTOR OF ENROLLMENT SERVICES  
636-922-8436 | [cakins@stchas.edu](mailto:cakins@stchas.edu)

DIRECTOR OF ACADEMIC ADVISING  
636-922-8477 | [jlansdowne@stchas.edu](mailto:jlansdowne@stchas.edu)

# STUDENT RIGHTS



## ADDRESSING STUDENT CONCERNS

## EXTERNAL RESOLUTION OPTIONS

## NON-DISCRIMINATION AND EQUAL OPPORTUNITY

## SEXUAL MISCONDUCT, NON-DISCRIMINATION, APPEAL & GRIEVANCE

## PROCEDURE FOR ADDRESSING STUDENT CONCERNS

Students with concerns about course requirements, class procedures, teaching styles or grades should whenever possible first approach the instructor for clarification/resolution. Concerns about final grades must be expressed by the end of the next regular semester. If, after contacting the instructor you still have concerns, you should address them to the appropriate program coordinator and/or department chair who will work with you and the instructor to resolve the matter. If the department is unable to remedy the situation, you should address your concerns to the division dean.

Individual departments may establish their own internal procedures for handling student concerns. If the division is unable to remedy the situation, you may then appeal in writing to the Office of Academic Affairs and Enrollment Management. Anonymous calls or unsigned letters will not be acknowledged. Only concerns expressed by the individual student involved will be dealt with.

Employees of the college may not legally discuss matters pertaining to non-minor students with parents, spouses, friends or classmates without a signed release from the student.

## EXTERNAL RESOLUTION OPTIONS

The Missouri Department of Higher Education serves as a clearinghouse for post-secondary student complaints. The MDHE complaint policy may be found at [dhe.mo.gov/documents/POLICYONCOMPLAINTRESOLUTION-REVISEDRAFT.pdf](http://dhe.mo.gov/documents/POLICYONCOMPLAINTRESOLUTION-REVISEDRAFT.pdf). This web page contains information about the complaint process and includes instructions for how to file a formal complaint. Note that the policy provides that a student who wishes to file a complaint with the department must first exhaust all formal and informal avenues provided by the institution to resolve disputes.

The Office for Civil Rights (OCR) enforces several Federal civil rights laws that prohibit discrimination in programs or activities that receive financial assistance from the Department of Education. A complaint can be filed by anyone who believes that an education institution that receives Federal Financial assistance has discriminated against someone on the basis of race, color, national origin, sex, disability, or age. The complaint form can be found at <http://www2.ed.gov/about/offices/list/ocr/complaintintro.html>.

Additionally, students may also contact:  
Higher Learning Commission  
230 South LaSalle Street, Suite 7-500  
Chicago, IL 60604-1411  
800-621-7440; Fax: 312-263-7462

## NON-DISCRIMINATION AND EQUAL OPPORTUNITY

The College is committed to non-discrimination and equal opportunity regarding the treatment of students, faculty and staff. The College adheres to a strict non-discrimination policy in student admission, educational programs, activities, and employment regardless of race, color, sex, sexual orientation, religion, creed, national origin, ancestry, age, veteran status, disability, or genetic information. The College is an Equal Opportunity Employer.

The College maintains a complaint procedure for the purpose of investigating and providing prompt and equitable remedy.

## SEXUAL MISCONDUCT, NON-DISCRIMINATION, APPEAL & GRIEVANCE

### SEXUAL MISCONDUCT

Sexual misconduct is prohibited and the College provides comprehensive procedures in compliance with Title IX of the Education Amendments of 1972, Violence Against Women Act (VAWA), Title VII of the Civil Rights Act, Jeanne Clery Act, and similar laws and regulations.

“Sexual Misconduct” is a broad term that includes sex discrimination and any non-consensual behavior of a sexual nature committed by force or intimidation or that is otherwise unwelcome. Sexual misconduct includes behaviors such as sexual assault, rape, domestic violence, dating violence, sexual harassment, sexual exploitation, and stalking.

For additional information on:

- **Evidence Preservation**
- **Law Enforcement**
- **Ex-Parte Orders of Protection**
- **Confidentiality**
- **How to file a report of concern**
- **Rights of involved parties in cases involving allegations of sexual harassment and sexual violence**
- **Intentional false reportings and reports made in bad faith**
- **Sanctions and Appeals**
- **Education/Training**
- **Risk Reduction**
- **Retaliation and Definitions**

Please consult the Student Handbook —“Sexual Misconduct, Non-discrimination, Appeal & Grievance” section at [stchas.edu/studenthandbook](http://stchas.edu/studenthandbook).

### Contact Information

CHIEF DIVERSITY OFFICER & TITLE IX COORDINATOR  
636-922-8654 | [mkampen@stchas.edu](mailto:mkampen@stchas.edu)

EXECUTIVE DEAN OF STUDENT LIFE  
636-922-8238 | [bcopeland@stchas.edu@stchas.edu](mailto:bcopeland@stchas.edu@stchas.edu)



# ACADEMIC PROGRAMS DEGREES AND CERTIFICATES

Instructional programs at St. Charles Community College offer you several options in attaining long-term or short-term educational goals.

If your goal is to complete requirements for the first two years of a bachelor's degree, you can enroll in SCC's college transfer program. The transfer program contains courses that parallel the first two years of study at many four-year institutions.

Another option is the career-technical program pathway. You can earn a certificate or degree that leads directly into the job market upon graduation from SCC. These one- and two-year programs allow you to match your career skills with jobs available in today's rapidly changing work force.

If you would like to take college-level classes but are unable to come to campus on a regular basis, you may take advantage of distance learning courses such as online courses.

A listing of courses offered for a specific semester can be found at [stchas.edu/distance](https://www.stchas.edu/distance).

Of course, not everyone comes to college seeking a degree, so SCC offers you the option to take credit classes one at a time to update job skills or for personal enrichment. Or, if you need to improve basic reading, writing and math skills before enrolling in college-level work, we encourage you to find out more about developmental programs and special study skills classes.

Descriptions of SCC credit courses begin on p. 105 or can be found online. Look under the "Academics" section online at [www.stchas.edu](https://www.stchas.edu).

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, the student needs to first enroll in such course before enrolling in the required courses.

For a complete listing of Academic Programs and degree plans visit our website at: [stchas.edu/academics/major-degrees-certificates](https://www.stchas.edu/academics/major-degrees-certificates)

Transfer Pathways Guides may be found on the college website: [stchas.edu/pathways](https://www.stchas.edu/pathways)

## To compare specific career and salary information for each degree or certificate offered by SCC go to:

<https://scorecard.mo.gov/scorecard/>

The "Missouri Scorecard is a publicly available website that combines a searchable program inventory with additional information on program costs, program student demographics, graduate outcomes (earning and employment) and a program comparison function.

### Once on the site:

- Type in St. Charles Community or select SCC from the school drop down.
- After selecting St. Charles Community College you may also select degree/cedential type (Associate Degree or Certificate) or field of study. If you do not make a selection in those fields you will get all fields offered by SCC



## PROGRAM DEFINITIONS

### Associate of Arts (A.A.)

The A.A. is awarded to students completing the requirements of the academic transfer program with a minimum of 64 semester hours including general education core requirements. It generally parallels the first two years of a Bachelor of Arts degree at a four-year institution.

### Associate of Arts in Teaching (A.A.T.)

The A.A.T. is awarded to students completing the requirements of the academic transfer program for future educators. It is a 64-hour program that includes a general education core and elective/institutional requirements. It generally parallels the first two years of a Bachelor of Arts degree at a four-year institution.

### Associate of Fine Arts (A.F.A.)

The A.F.A. is awarded to students completing the requirements of a specifically identified academic program available within this degree. Minimum credit hours vary based on the specific program. The Associate of Fine Arts degree is a transfer degree for students planning to pursue a bachelor's degree with a concentration in studio fine arts, graphic design, Art Education or music at either a four-year college, university or art school.

### Associate of Science (A.S.)

The A.S. is awarded to students completing the requirements of a specifically identified academic program available within this degree. Minimum credit hours required varies based on the specific program. It generally parallels the first two years of a Bachelor of Arts degree or a Bachelor of Science degree at a four year institution.

### Associate of Applied Science (A.A.S.)

The A.A.S. is awarded to students completing the requirements of one of the career/technical programs. Minimum credit hours required varies based on the specific program. Although this degree is not intended to be a transfer degree, some of the courses will transfer to four-year institutions.

### Certificate of Achievement (C.A.)

Certificates are awarded upon completion of a prescribed sequence of courses for each program. Normally, two semesters are necessary to complete the requirements for a one-year certificate.

### Certificate of Specialization (C.S.)

This certificate is for people who desire information or skills in a specific area related to their current job. They usually can be completed in a short period of time.

Per college policy individual students may be required to take Col 101

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.

### Graduation Requirements

Complete specific degree/certificate requirements as listed

- Complete a minimum of 15 credit hours at SCC
- Earn a 2.00 cumulative grade point average.
- Students earning the Associate of Arts Degree must complete one of the following courses: BTC/CPT 103, CPT 115 EDU 220 or test for competency.
- Any student entering a public institution of higher education for the first time after July 2019 who is pursuing an associate's or bachelor's degree from such institution shall successfully pass an examination on the provisions and principles of American civics with a score of seventy percent or greater as a condition of graduation from such institution.

**ART****Degrees**

A.A.S.	Graphic Design
A.F.A.	Art Education
A.A.	Art/Graphic Design
A.F.A.	Graphic Design
A.F.A.	Studio Art

**Certificates**

C.S.	Design Media
C.S.	Photography
C.S.	Print Media
C.S.	Web Media

**Transfer Pathways**

A.F.A.	Art Education
A.A.	Art/Graphic Design
A.F.A.	Graphic Design
A.F.A.	Studio Art

**AGRICULTURE****Degrees**

A.S.	Agriculture
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**Transfer Pathways**

A.S.	Agriculture
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**BUSINESS****Degrees**

A.A.S.	Accounting, Finance, Management, Marketing, General Business
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**Certificates**

C.S.	Accounting
C.S.	Banking/Finance
C.A.	Business Administration (Accounting, Finance, Management, Marketing, General Business)
C.S.	Management
C.S.	Marketing

**Transfer Pathways**

A.A.	Business
A.A.	Economics

**BUSINESS TECHNOLOGY****Degrees**

A.A.S.	Business Technology
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**Certificates**

C.A.	Computer Applications
C.A.	Customer Service
C.A.	Desktop Publishing
C.S.	Software Productivity

**COMPUTER SCIENCE****Degrees**

A.A.S.	Computer Science (Computer Programming, Management Information Systems, Database Management, Data Analytics, Animation and Gaming)
A.A.S.	Cyber Security
A.A.S.	Information Technology
A.A.S.	Multimedia and Web Design
A.A.S.	Networking
A.S.	Cyber Security
A.S.	Computer Science
A.S.	Programming

**Certificates**

C.S.	Computer Security
C.S.	Cyber Security
C.A.	Data Management
C.S.	Desktop Support
C.S.	IT Project Management.
C.A.	Multimedia
C.S.	Multimedia
C.S.	Networking (Routing & Switching)
C.A.	Networking
C.S.	Programming
C.A.	Programming Languages
C.S.	System Administration
C.A.	Web Design
C.S.	Web Development

**Transfer Pathways**

A.A.	Computer Science
A.S.	Cyber Security
A.S.	Computer Science
A.S.	Programming

**CRIMINAL JUSTICE****Degrees**

A.A.S.	Law Enforcement
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**Certificates**

C.A.	Law Enforcement
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**Transfer Pathways**

A.A.	Criminal Justice
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**EDUCATION****Degrees**

A.A.S.	Child Care & Early Education
A.A.S.	Paraprofessional Studies
A.A.S.	Paraprofessional Studies Autism Specialist
A.A.T.	Early Childhood Education Transfer Program
A.A.T.	Elementary Education Transfer Program
A.A.T.	Secondary Education Transfer Program

**Certificates**

C.S.	Autism Specialist
C.A.	Child Care & Early Education

**Transfer Pathways**

A.A.T.	Early Childhood Education Transfer Program
A.A.T.	Elementary Education Transfer Program
A.A.T.	Secondary Education Transfer Program

**ENGLISH/COMMUNICATIONS****Degrees**

A.F.A.	Creative Writing
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**Certificates**

C.S.	Creative Writing
C.S.	English as a Second Language
C.S.	English Fundamentals

**Transfer Pathways**

A.F.A.	Creative Writing
A.A.	Communication
A.A.	English
A.A.	Foreign Language (Arabic, French, German, Spanish)

**GENERAL EDUCATION****Degrees**

A.A.	Liberal Arts
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**Certificates**

C.S.	Diversity
C.S.	Honors

**Transfer Pathways**

A.A.	Liberal Arts/Transfer - Schedule Guide
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**HEALTHCARE****Degrees**

A.A.S.	Emergency Medical Science
A.S.	Health Information Management
A.S.	Nursing
A.A.S.	Occupational Therapy Assistant
A.S.	Pre-Pharmacy

**Certificates**

C.A.	Medical Assisting.
C.A.	Medical Billing and Coding
C.A.	Practical Nursing

**Transfer Pathways**

A.S.	Pre-Pharmacy
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**HUMAN SERVICES****Degrees**

A.A.S.	Human Services
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**Transfer Pathways**

A.A.	Social Work
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**HUMANITIES****Certificates**

C.A.	Global Studies
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**MATH****Transfer Pathways**

A.A.	Mathematics
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**MUSIC****Degrees**

A.F.A.	Music Transfer
A.F.A.	Music Education
A.A.	Music Major (Voice, Piano, or Instrumental)

**Transfer Pathways**

A.F.A.	Music Transfer
A.F.A.	Music Education
A.A.	Music Major (Voice, Piano, or Instrumental)

**PHYSICAL EDUCATION****Degrees**

A.S.	Exercise Science
A.S.	Recreation & Leisure

**Transfer Pathways**

A.S.	Exercise Science
A.S.	Recreation & Leisure

**SCIENCE****Degrees**

A.S.	Agriculture
A.S.	Biology
A.S.	Chemistry
A.S.	Pre-Environmental Health and Safety

**Transfer Pathways**

A.S.	Agriculture
A.S.	Biology
A.S.	Chemistry
A.S.	Pre-Environmental Health and Safety



## SOCIAL SCIENCE

### Transfer Pathways

- A.A. Geography
- A.A. History
- A.A. Political Science
- A.A. Psychology/Sociology

## THEATRE

### Transfer Pathways

- A.A. Theatre

## TRADES/MANUFACTURING

### Degrees

- A.A.S. Computer-Aided Drafting
- A.S. Engineering
- A.A.S. General Technology
- A.A.S. Skilled Trades
- A.A.S. Supply Chain Logistics and Manufacturing Techniques
- A.A.S. Welding

### Certificates

- C.S. Advanced Welding
- C.S. Basic Welding
- C.A. Computer-Aided Drafting (CAD)
- C.A. Entry Level Welding
- C.A. Manufacturing Technology
- C.S. Manufacturing Technology, Certified Production Technician

### Transfer Pathways

- A.S. Engineering

## GENERAL EDUCATION

Senate Bill 997 established the Higher Education Core Transfer Curriculum Act (Sections 178.785-789 RSMo), which directs the Coordinating Board for Higher Education to develop a standard core transfer curriculum and a common course numbering equivalency matrix for lower-division general education courses. The core transfer curriculum, known as CORE 42, is a framework for general education that all Missouri public two-and four-year institutions of higher education were required to adopt beginning the fall semester of 2018. The goal of the CORE 42 is to facilitate the seamless transfer of academic credits. The completion of the CORE 42 at any public institution of higher education will transfer to every other public institution of higher education in the state and substitute for the receiving institution's general education requirement. Individual courses that comprise the CORE 42 are guaranteed to transfer one-to-one among all public (and participating independent) colleges and universities in Missouri.

Courses within the CORE42 are assigned a MOTR number (Missouri Transfer) and will be designated by this logo:



The framework for Missouri's CORE 42 is designed for students to obtain the basic competencies of Valuing, Managing Information, Communicating, and Higher-Order Thinking through the completion of at least 42-semester hours distributed across the broad Knowledge Areas of Communications, Humanities & Fine Arts, Natural & Mathematical Sciences, and Social & Behavioral Sciences. Students obtain the competencies through completion of the CORE 42 in its entirety.

A Course Transfer Tracker was developed to allow students, parents, and other interested parties to see how general education courses will transfer to other public colleges and universities in Missouri. The Course Transfer Tracker is located on the MDHE Journey to College website.

At SCC the CORE 42 (General Education) transfer curriculum applies only to the Associate of Arts degree. The Associate of Fine Arts, Associate of Arts in Teaching, Associate of Science, Associate of Applied Science and the Certificate of Achievement have specific General Education courses within each degree plan. Courses in those degree plans that are included in the CORE 42 curriculum are guaranteed to transfer one-to-one among all public (and participating independent) colleges and universities in Missouri.



## ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS



### SOCIAL & BEHAVIORAL SCIENCES: OBJECTIVES

#### State-Level Goal

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 acquire an understanding of the diversities and complexities of the cultural and social world, past and present, and come to an informed sense of self and others. As part of this goal, institutions of higher education include a course of instruction in the Constitution of the United States and of the state of Missouri and in American history and institutions (Missouri Revised Statute 170.011.1).

#### Suggested competencies

Students will demonstrate the ability to:

- Explain social institutions, structures, and processes across a range of historical periods and cultures.
- Develop and communicate hypothetical explanations for individual human behavior within the large-scale historical and social context.
- Draw on history and the social sciences to evaluate contemporary problems.
- Describe and analytically compare social, cultural, and historical settings and processes other than one's own.
- Articulate the interconnectedness of people and places around the globe.
- Describe and explain the constitutions of the United States and Missouri.

**9 credits minimum from at least 2 disciplines, including at least one Civics course (denoted by \* )**

<b>Anthropology</b>	<b>Criminal Justice</b>
ANT-101	CRJ-140
ANT-102	<b>Political Science</b>
<b>Economics</b>	POL-101 *
ECO-100	POL-201
ECO-110	POL-210
ECO-120	<b>Psychology</b>
<b>Geography</b>	PSY-101
GEO-100	PSY-210
<b>History</b>	<b>Sociology</b>
HIS-101 *	SOC-101
HIS-102 *	

**6 credit hours minimum**

ENG-101
ENG-102
ENG-115

### WRITTEN COMMUNICATION: OBJECTIVES

#### State-Level Goal

To prepare students to communicate effectively with writing that exhibits solid construction resulting from satisfactory planning, discourses, and review. Students will understand the importance of proficient writing for success in the classroom and the workforce

#### Suggested competencies

Students will demonstrate the ability to:

- Demonstrate critical and analytical thinking for reading, writing, and speaking.
  - Compose sound and effective sentences.
  - Compose unified, coherent and developed paragraphs. Understand and use a recursive writing process to develop strategies for generating, revising, editing and proofreading texts.
- Produce rhetorically effective discourse for subject, audience, and purpose.
  - Demonstrate effective research and information literacy skills.

## ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS (CONTINUED)

### ORAL COMMUNICATIONS: OBJECTIVES

#### State-Level Goal

To prepare students to communicate effectively with oral presentations that demonstrate appropriate planning and expressive skills. Students will understand the role of public speaking for success in the classroom and society.

#### Suggested competencies

Students will demonstrate the ability to:

- Use productive imagination for the discovery and evaluation of appropriate arguments relating to a chosen topic through effective research.
- Will demonstrate they understand the basic process of audience analysis;
- Use, identify, and create speeches for different types of speaking purposes,
- Demonstrate effective preparation skills in the organization of speeches into three appropriate sections and preparing each section using the appropriate information and transitions between information and sections.
- Utilize and understand the patterns of organization to structure information for each specific type of speech. Students will use parallel ideas and information on different levels of abstraction in these patterns.
- Demonstrate effective skill at composing and developing arguments with appropriate support that is unified, coherent and fully developed utilizing the tenets of good writing and research.
- Understand the complex issue of good delivery and show improved personal confidence and the ability to manage communication apprehension.
- Demonstrate effective listening skills as it relates to critical understanding of speech topics and critique of that speaking.
- Demonstrate that they understand and take part in ethical speaking and listening during presentations.
- Understand communication ethics for both speech preparation and critiquing of peer speeches by utilizing responsible research and citing sources, preparing speeches with integrity when dealing with information and sources, and using emotional and logical appeals responsibly.
- Demonstrate and understand the role of public speaking in citizenry and how public speaking can contribute to success in the classroom and society.

**3 credit hours minimum**

COM-101
COM-104
COM-106
COM-110
COM-200
ESL-105

### NATURAL SCIENCES: OBJECTIVES

#### State-Level Goal

To develop students' understanding of the principles and laboratory procedures of the natural sciences (Life and Physical) 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.

#### Suggested competencies

Students will demonstrate the ability to:

- Explain how to use the scientific method and how to develop and test hypotheses in order to draw defensible conclusions.
- Evaluate scientific evidence and argument.
- Describe the basic principles of the natural world.
- Describe concepts of the nature, organization, and evolution of living systems.
- Explain how human interaction(s) affect living systems and the environment.

**7 credit hours minimum from at least 2 disciplines, including one course with a lab component (denoted by \* )**

#### Astronomy

PHY-130
PHY 130/131 (*)

#### Biology

BIO-105
BIO-105/106 (*)
BIO-108
BIO-120/121 (*)
BIO-122
BIO-150 (*)

#### Chemistry

CHM-101
CHM 101/103 (*)
CHM-115 (*)

#### Geology

PHY-105
PHY-105/107 (*)
PHY-125
PHY--125/127 (*)

#### Life Science

BIO-110
BIO-110/113 (*)
BIO-130
BIO-250A/250B (*)

#### Physical Science

PHY-111
PHY-111/113 (*)

#### Physics

PHY-150/153 (*)
PHY-250 (*)

**ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS (CONTINUED)**

**MATHEMATICAL SCIENCES: OBJECTIVES**

**State Level Goal**

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.

**Suggested Competencies**

Students will demonstrate the ability to:

- Describe contributions to society from the discipline of mathematic Recognize and use connections within mathematics and between mathematics and other disciplines.
- Read, interpret, analyze, and synthesize quantitative data (e.g., graphs tables, statistics, survey data) and make reasoned estimates.
- Formulate and use generalizations based upon pattern recognition.
- Apply and use mathematical models (e.g., algebraic, geometric, statistical) to solve problems.

**3 credit hours minimum**

**MAT-155**

**MAT-157**

**MAT-158**

**MAT-162**

**MAT-171**

Mathematical sciences courses that use one of the pathway courses as a prerequisite will meet the general education credit for math.

For example, Calculus meets the General Education math requirement since Pre-Calculus Algebra is a prerequisite

Courses higher than MAT 171 will be granted 3 credit hours towards the CORE 42. Additional credits will count as General Elective credit.

**HUMANITIES & FINE ARTS: OBJECTIVES**

**State Level Goal**

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.

**Suggested Competencies**

Students will demonstrate the ability to:

- Describe the scope and variety of works in the humanities and fine arts (e.g., fine and performing arts, literature, speculative thought).
- Explain the historical, cultural, and social contexts of the humanities and fine arts.
- Identify the aesthetic standards used to make critical judgments in various artistic fields.
- Develop a plausible understanding of the differences and relationships between formal and popular culture.
- Articulate a response based upon aesthetic standards to observance of works in the humanities and fine arts.

<b>9 credit hours minimum, from at least 2 disciplines</b>	ARB-101	CPT 105	LIT-230	ENG-206
	ARB-102	PHL-101	LIT-240	ENG-207
<b>Art</b>	GRM 101	PHL-102	LIT-250	ENG-208
	GRM 102	PHL-160	LIT-260	ENG-209
<b>Music</b>	ART-1001	<b>Religion</b>	LIT-271	ENG-210
	ART-1505	PHL-201	LIT-272	MUS-105/106/107
<b>Civilization</b>	ART-1500	LIT-207	LIT-273	MUS-115/116/117
	MUS-111	<b>Literature</b>	LIT-274	MUS-145/146/147
<b>Foreign Language</b>	HIS-145	LIT-200	<b>FILM</b>	MUS-175/176/177
	HIS-146	LIT-205	THE/COM-123	MUS-185/186/187
<b>Theater</b>	MUS-231	LIT-210	THE-124	THE/COM 115
	MUS-232	LIT-215	<b>Performance</b>	THE-128
<b>Philosophy</b>	FRN-101	LIT-216	(Choose only 3 credits from this Group)	THE-140
	FRN-102	LIT-220	ART-1400	THE-220
	SPN-101	LIT-222	ENG-201	THE-240
	SPN-102	LIT-223		

**SCC Institutional Requirements to Earn an Associate of Arts Degree:**

Complete a minimum of 64 credit hours, including 42 credit hours of general education courses adhering to the minimums as listed above.

Complete one of the following courses: BTC-103, CPT-103, CPT-115 or EDU-220.

Earn a cumulative grade point average of 2.0.

Complete a minimum of 15 credit hours at SCC.



## ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENTS (PRIOR TO FALL 2018)

### COMMUNICATIONS

To develop student's 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.

**Minimum 9 Credit Hours**

ENG-101  
ENG-102 or  
HON-100  
HON-101

**Beginning FA/18 SPE is COM**

COM-101 or  
COM-106 or  
COM-110

### 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.

**Minimum 9 Credit Hours**

Choose One Course from:	Choose One Course From:	Choose one additional course from the previous lists or:
HIS-101	Any ANT	
HIS-102	CRJ-140	
HIS-115	CRJ-175	Any HIS
HIS-270	ECO-100	Any POL
HON-100	ECO-110	HON-103
HON-101	ECO-120	
HON-102	EDU-247	
HIS-107	Any GEO	
POL-101	PSY-101	
POL-102	SOC-101	
	HON-102	
	HON-104	

### 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.

**Minimum 9 Credit Hours**

Choose One Course from:	Choose One Course From:	Choose one additional course from the previous lists.
ENG-206	ENG-207	
ART-1001	ENG-208	HON-104
ART-1500	ENG-209	HON-108
ART-1505	ENG-250	Any LIT
ART-2100	MUS-109	ANY PHL
ART-2210	MUS-110	Any Foreign Language
ART-1200	MUS-111	BUS-105 or CPT-105
ART-2220	MUS-112	ENG-280
ART-2401	MUS-113	
ART-2501	MUS-114	
ART-2551	MUS-229	
ART-2601	MUS-230	
ART-2701	MUS-231	
ART-2751	MUS-232	
COM-123	MUS-234	
COM-124	MUS-235	
ENG-200	THE-122	
ENG-201	THE-123	
ENG-202	THE-124	
ENG-203	THE-229	
	THE-230	

## ASSOCIATE OF ARTS GENERAL EDUCATION REQUIREMENT (PRIOR TO FALL 2018 (CONTINUED))

### MULTICULTURAL/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.

**Minimum 3 Credit Hours**

Choose One Course from:	GEO-102	LIT-265
ANT-102	GEO-110	LIT-267
ANT-103	Any GLC	LIT-271
ANG-151	Any GLS	LIT-272
ANT-161	HIS-145	LIT-273
ANT-171	HIS-146	LIT-274
ANT-181	HIS-160	LIT-275
ANT-201	HIS-202	LIT-280
ANT-202	HIS-203	SOC-151
ANT-220	HIS-240	SOC-224
ANT-224	HMS-151	SOC-241
ART-1001	HON-104	MUS-111
ART-1500	LIT-200	PHL-201
ART-1505	LIT-201	POL-201
ART-2210	LIT-207	POL-210
BUS-105 or CPT-105	LIT-215	POL-220
BUS-255	LIT-216	POL-255
CRJ-280	LIT-218	Any Foreign Language
EDU-247	LIT-222	SPE-215
ENG-280	LIT-223	GLC-215
ESL-107	LIT-230	
ESL-108	LIT-239	
GEO-100	LIT-240	
GEO-101	LIT-241	
	LIT-242	

### 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.

**Minimum 3 Credit Hours**

**Choose One Course from:** MAT-155 or Higher

A student who takes a 3 credit hour math course that is equivalent to or higher than MAT-155, For example: MAT-175, will need to take an additional general education credit hour, to meet the 42 credit hour general education requirement.

### NATURAL SCIENCES

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.

**Minimum 7 Credit Hours**

Choose One Course from:	Choose One Course from:	At least one lab must be taken with a corresponding lecture course.
BIO-105/106	CHM-101/103	
BIO-110/113	CHM-106	
BIO-120/121	CHM-110/113	
BIO-122	CHM-115	
BIO-130	PHY-105/107	
BIO-150	PHY-111/113	
HON-106	PHY-125/127	
	PHY-130/131	
	PHY-145/147	
	PHY-150/153	
	PHY-250	

**SCC Institutional Requirements to Earn an Associate of Arts Degree:**

Complete a minimum of 64 credit hours, including 42 credit hours of general education courses

Complete one of the following courses: BTC-103, CPT-103, CPT-115 or EDU-220.

Earn a cumulative grade point average of 2.0

Complete a minimum of 25 credit hours at SCC



## ASSOCIATE OF APPLIED SCIENCE GENERAL EDUCATION REQUIREMENTS

### 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 credit hours**

- ENG 101
- ENG 102, 115 or 125
- HON 100, 101
- One Course from Group I:
- COM 101, 106, 110

### 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 credit hours**

- EDU 247, HIS 101, 102, 115, 202, 203, 270
- HON 100, 101, 102
- POL 101, 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.

**3 credit hours**

- 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 credit hours**

- Any ART
- BUS 105 or CPT 105
- COM 123, COM 124
- EDU 125
- Any LIT
- Any MUS
- Any PHL
- Any THE
- Any Foreign Language

## ASSOCIATE OF APPLIED SCIENCE GENERAL EDUCATION REQUIREMENTS (CONTINUED)

### 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 credit hours**

- Any BIO
- Any CHM
- Any PHY

### ELECTIVE

**3 credit hours**

- Any ANT
- Any ART
- Any BIO
- Any CHM
- CPT/BTC 103, CPT 115, or EDU 125, 220
- Any ECO
- Any ENG
- Any GEO
- Any HIS
- Any LIT

- Any MAT
- Any MUS
- Any PHE
- Any PHL
- Any PHY
- Any POL
- Any PSY
- Any SOC
- Any COM
- Any THE





## ASSOCIATE OF ARTS IN TEACHING GENERAL EDUCATION REQUIREMENTS

### 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.

#### 9 credit hours

PSY 101  
EDU 247  
HIS 102\* or HIS 146  
POL 101\* or POL 210

\* Students must take either HIS 102 or POL 101 to meet state requirements.

### 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.

#### 6 credit hours

LIT 271  
LIT 210 or  
LIT 220

## ASSOCIATE OF ARTS IN TEACHING GENERAL EDUCATION REQUIREMENTS (CONTINUED)

### MULTICULTURAL/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 credit hours

GEO 100 or  
ANT 102  
EDU 247

### 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 credit hours

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.

#### Choose one option:

**Option 1:**  
BIO 105  
CHM 115  
PHY 111

#### 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:** Social Science – 183  
English/Language Arts – 186 Math – 183  
Writing – 193  
Science – 183



## CERTIFICATES OF ACHIEVEMENT GENERAL EDUCATION REQUIREMENTS

### 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 credit hours**

ENG 101, 102, 115, 125  
HON 100, 101, 102 or  
COM 101, 106, 110

## CERTIFICATES OF ACHIEVEMENT GENERAL EDUCATION REQUIREMENTS (CONTINUED)

### 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.

**3 credit hours**

HIS 101, 102, 115, 270  
HON 100, 102, 102  
POL 101, 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.

**3 credit hours**

MAT 098 or higher

### ELECTIVE

**3 credit hours**

Any ANT	Any MUS
Any ART	Any PHE
Any BIO	Any PHL
BTC 103	Any PHY
CPT 103, 115	Any POL
Any CHM	Any PSY
Any COM	Any SOC
Any ECO	Any SPE
EDU 220	Any THEAny POL
Any ENG	Any PSY
Any Foreign Language	Any SOC
Any GEO	Any THE
Any HIS	
Any LIT	
Any MAT	

# COURSE DESCRIPTIONS

## 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 125 Certified Bookkeeper (3)

**Prerequisites:** ACT 110

Coursework will lead to national certification with the American Institute of Professional Bookkeepers (AIPB). The AIPB Certification is a high professional standard for bookkeepers and is the only national standard.

### 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.

### 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.

## AGRICULTURE - AGB

### AGB 110 Agricultural Economics (4)

**Prerequisites:** MAT 098 or Assess into MAT 121

Characteristics of our economic system and fundamental principles of macroeconomic concepts with applications to agriculture. Effects on agriculture by money and banking systems, monetary and fiscal policies, government policies and international trade.

## AGRICULTURE - AGR

### AGR 100 Agricultural Industries (1)

Introduction to industries and careers that support agriculture. Includes: Resources for major exploration (incorporating regional professional societies, guest seminars, and university transfer information). Emphasis is placed on emerging trends in field practice.

### AGR 105 Sustainable Agriculture and the Environment (3)

Examines the practice of agro-ecology: the interface of management, biology and the environment in our effort to produce food, feed, and fiber for a rapidly growing human population. Consequences of historical and current practices and policies will be discussed as well as strengths and weaknesses of alternative practices that seek to employ more knowledge of biology and ecology.

### AGR 110 Introductory Forestry (3)

Introduction to field of forestry. In addition to traditional topics of species identification, biology and timber management, this course examines the sociological, environmental, industrial, and political influences, as well as the economic significance on domestic and international management of forest resources.

### AGR 120 Precision Agriculture (3)

Emphasis on Global Positioning Systems (GPS), Geographic Information Systems (GIS), remote sensing, data acquisition, mapping, variable rate applications and economics of precision agriculture technologies. Includes a fundamental understanding of precision agriculture; identification and use appropriate hardware and software tools; experience in developing and interpreting prescription maps; effectively use data in management decisions; and understanding of precision agriculture applications in other countries.

### AGR 200 Agribusiness Internship (3)

**Prerequisites:** Student must have completed a minimum of 15 hours of coursework in AGR, AGB, AGS.

This internship requires students to apply their knowledge at a local agricultural business or farm.

## AGRICULTURE - AGS

### AGS 170/BIO 170 Plant Science (3)

**Prerequisites:** High School biology or equivalent and High School Chemistry or equivalent with a grade of C or better within the last 5 years

**Corequisites:** An introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture.

An introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture.

### AGS 171/BIO 171 Plant Science Lab (1)

**Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.

**Corequisites:** AGS 170/BIO 170

Introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture. Provides opportunities for laboratory application of concepts of plant science using basic research and production practices in plant science.

### AGS 180/BIO 180 Animal Science (4)

**Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.

Principles of animal science including importance of animal agriculture, genetics, anatomy, physiology and nutrition.

### AGS 210/PHY 210 Soils (3)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better

**Corequisites:** AGS 211/PHY 211

Introduction to soil sciences with emphasis placed on physical, biological and chemical properties as related to moisture, temperature, drainage and tillage. Applications including land use, plant growth and environmental problems. Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

### AGS 210/PHY 210 Soils (3)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better

**Corequisites:** AGS 211/PHY 211

Introduction to soil sciences with emphasis placed on physical, biological and chemical properties as related to moisture, temperature, drainage and tillage. Applications including land use, plant growth and environmental problems. Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

### AGS 211/PHY 211 Soils Lab (1)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better

**Corequisites:** CHM 101/103 or CHM 115 with a grade of C or better

Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

## ANTHROPOLOGY - ANT

### ANT 101 General Anthropology (3)

Introductory survey of anthropology includes subfields of physical/biological, ethnology/cultural, linguistic and archaeological/material. General anthropology is a broad field looking at human behavior cross-culturally, as well as our material productions both past and present, the evolution of our modern human form, and language. Equal time will be spent on each of the four subfields providing an overview of anthropology today.

### 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 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 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 181 The Archaeology of Mythology (3)**

Investigate what archaeology can add to the study of mythology and of the cultures that created these stories. Topics include both prehistoric and historic time periods from around the world, with a special emphasis on Classical Greece and Rome.

**ANT 201 Field School in Archaeology (3-6)**

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 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 hrs)**

Exploration of topic selected by instructor. Topic varies depending on semester and instructor

**ARABIC - ARB****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)**

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****ART 1001 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)**

**Prerequisites:** ARB 101

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 2-D Design (3)**

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.

**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 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 Drawing II (3)**

Continuation of ART 1400 reassessing methods and analysis with emphasis on color theory and use of wet and dry media.

**ART 1500 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 Survey of Western Art History II: Renaissance to the Twentieth Century (3)**

**Prerequisites:** ART 1001 or ART 1500

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 with a passing grade or instructor permission

Focus on page layout, publication design, and layout techniques covering a range of work, from flyers, brochures, magazines, multi-page 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 2110 Typography (3)**

**Prerequisites:** ART 1105 with a passing grade or instructor permission

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 with a passing grade or instructor permission

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 permission

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 (3)**

**Prerequisites:** ART 1105 and ART 2130 or instructor permission

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 2070 Video Production (3)**

**Prerequisites:** ART 2810 or ART 1105 and ART 2800 or instructor permission

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 permission

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 Modern and Contemporary Art History (3)**

**Prerequisites:** ART 1001 or ART 1500 or ART 1505

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 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 Drawing III (3)**

**Prerequisites:** ART 1405

Continuation of Drawing II. Emphasis on variety of drawing materials and subject matter as well as development of individual expression.

**ART 2310 Figure Drawing I (3)**

Introduction to human-figure drawing through traditional and contemporary methods. Emphasis on analysis of space and form as well as human anatomy.

**ART 2320 Figure Drawing II (3)**

**Prerequisites:** ART 2310

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 Special Problems in Studio Art: Drawing (3)**

**Prerequisites:** Instructor permission

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 Painting I (3)**

**Prerequisites:** ART 1400

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)****Prerequisites:** ART 1400

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 2410 Painting II (3)****Prerequisites:** ART 2400

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 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 2420 Painting III (3)****Prerequisites:** ART 2410

Continuation of Painting II. Special projects in both traditional and nontraditional materials and subject matter.

**ART 2430 Topics: Advanced Painting (3)****Prerequisites:** ART 2420

Advanced course on contract individual study basis to gain greater expertise in painting.

**ART 2490 Special Problems in Studio Art: Painting (3)****Prerequisites:** Instructor permission

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 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)****Prerequisites:** ARB 201 or equivalent

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 Ceramics II (3)**

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 Topics: Advanced Ceramics (3)****Prerequisites:** ART 2510

Advanced course on contract individual study basis to gain greater expertise in ceramics

**ART 2550 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 Jewelry II (3)****Prerequisites:** ART 2550

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 Topics: Advanced Jewelry (3)****Prerequisites:** ART 2560

Advanced course on contract individual study basis to gain greater expertise in jewelry making.

**ART 2590 Special Problems in Studio Art: Ceramics (3)****Prerequisites:** Instructor permission

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 2595 Special Problems in Studio Art: Jewelry (3)**

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 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 Sculpture II (3)****Prerequisites:** ART 2600

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 Figure Sculpture (Figurative Clay Sculpture I) (3)****Prerequisites:** ART 2600

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 2630 Topics: Advanced Sculpture (3)****Prerequisites:** ART 2610 or ART 2620

Advanced course on contract individual study basis to gain greater expertise in sculpture.

**ART 2690 Special Problems in Studio Art: Sculpture (3)****Prerequisites:** Instructor permission

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 Intro to Printmaking (Printmaking I) (3)****Prerequisites:** ART 1400 or ART 1200

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, aquatint, drypoint), and Monotype.

**ART 2701 Printmaking for Non-Art Majors (3)**

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.

**ART 2730 Topics: Advanced Printmaking (3)****Prerequisites:** ART 2710 or 2720

Advanced course on contract individual study basis to gain greater expertise in printmaking.

**ART 2750 Fibers (3)****Prerequisites:** ART 2710 or 2720

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 (3)**

An 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 Special Problems in Studio Art: Printmaking (3)****Prerequisites:** Instructor permission

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 Special Problems in Studio Art: Fibers (3)****Prerequisites:** Instructor permission

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 2800 Black & White Photography (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 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 Black & White Photography II (3)****Prerequisites:** ART 2800

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 Digital Photography II (3)****Prerequisites:** ART 2810

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 Photography III (3)****Prerequisites:** ART 2820 or ART 2830

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 consistency and sophistication in expression of ideas.

**ART 2850 Topics: Advanced Photography (3)****Prerequisites:** ART 2840

Advanced course on contract individual study basis to gain greater expertise in photography.

**ART 2855 Special topics in Photography (3)****Prerequisites:** ART 2820 or ART 2830 or instructor permission

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 different 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 Special Problems in Studio Art: Black & White Photography (3)****Prerequisites:** Instructor permission

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 Special Problems in Studio Art: Digital Photography (3)****Prerequisites:** Instructor permission

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 Illustration I (3)****Prerequisites:** ART 1400

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 Illustration II (3)****Prerequisites:** ART 2900

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 Gallery Management Internship (3)****Prerequisites:** Instructor permission

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 Visual Arts Studio Internship (3)****Prerequisites:** Instructor permission

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 2600 Art and Architecture Field Studies (1-3)****Prerequisites:** One of the following: ART 1001, 1200, 1300, 1400, 1500, 2750, 2401, 2501, 2551, 2601, 2701, 2751, 2800, 2930 or instructor permission

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 Special Problems in Studio Art: Illustration (3)****Prerequisites:** Instructor permission

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 Special problems in Studio Art (3)****Prerequisites:** Instructor permission

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****BIO 095 Pre-A&P Foundations in Science (1)****Prerequisites:** ART 2610 or ART 2620

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. This course does not count toward graduation.

**BIO 105 Essentials of Biology (3)****Corequisites:** BIO 106 (recommended but not required)

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.

**BIO 106 Essentials of Biology Laboratory (1)****Prerequisites:** BIO 105

Emphasis on use of methodologies typical of biological studies. Compliments topics covered in BIO 105. Suitable for non-science majors.

**BIO 108 Trends in Science (3)**

Provides undergraduate non-majors an understanding of contemporary scientific issues, concepts and trends in biology. Emphasis is on health and disease, genetic engineering, evolutionary aspect of organisms, introduction to ecology and the impact of humans on ecosystems and environment.

**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)****Prerequisites:** BIO 110

Use of models, specimens, and investigative activities intended to enhance study of human organism.

**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.

**BIO 150 General Biology I (5)****Prerequisites:** MAT 121 or higher with a passing grade, 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.

An 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.

**BIO 150 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 170/AGS 170 Plant Science (3)****Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.**Corequisites:** BIO 171/AGS 171

An introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture.

**BIO 171/AGS 171 Plant Science Lab (1)****Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.**Corequisites:** AGS 170 or BIO 170

Introduction to plant science and plant physiology spanning the areas of food, ornamental crops and sustainable agriculture. Provides opportunities for laboratory application of concepts of plant science using basic research and production practices in plant science.

**BIO 180/AGS180 Animal Science (4)****Prerequisites:** High School biology or equivalent and High School chemistry or equivalent with a grade of C or better within the last 5 years.

Principles of animal science including importance of animal agriculture, genetics, anatomy, physiology and nutrition.

**BIO 200A Essentials of Anatomy & Physiology for SCC Practical Nursing Students (4)****Prerequisites:** Please see Allied Health advisor to enroll.**Corequisites:** BIO 200B

Pre-requisite for the SCC Practical Nursing Program. Covers basic anatomy and physiology of the human body systems. Serves as a pre-requisite for BIO-251 A/B only for students who plan to bridge from the PN Program at SCC to the ADN/RN program at SCC only.

**BIO 200B Essentials of Anatomy & Physiology Lab for SCC Practical Nursing Students (0)****Prerequisites:** Please see Allied Health advisor to enroll.**Corequisites:** BIO 200A

Laboratory exercises reinforce lecture concepts presented in BIO 200A. Use of models, microscopic and gross specimens, and illustrations will enable study of the anatomy of human organ systems. Intended only for students in BIO 200A as preparation for SCC's Practical Nursing Program.

**BIO 242 Anatomy and Physiology Supplement (1)****Prerequisites:** BIO 250A and 250B

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. Course is only offered during late start sessions

**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 250B Anatomy and Physiology Laboratory I (0)****Prerequisites:** BIO 250A

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.

**BIO 250A Anatomy and Physiology I (4)****Prerequisites:** High School biology or its equivalent within the last five years with a grade of C or better and CHM 099 or CHM 101/103 or CHM 106 or its equivalent with a grade of a C or better within the last five years.**Corequisites:** BIO 250B

Structure and function of human body, with particular attention to cell biology, skeletal system, muscular system, nervous system and endocrine system.

**BIO 251A Anatomy and Physiology II (4)****Prerequisites:** BIO 250A and BIO 250B with a grade of C or better**Corequisites:** BIO 251B

Continuation of study of structure and function of human body. Topics include cardiovascular system, lymphatic system, respiratory system, digestive system, urinary system, and reproduction.

**BIO 251B Anatomy and Physiology Laboratory II (0)****Prerequisites:** BIO 250A and BIO 250B with a grade of C or better**Prerequisites:** BIO 251A

Continuation of BIO 250B. Use of laboratory activities to enhance study of human body structure and function.

**BIO 280 Nutrition Pathways (3)****Prerequisites:** BIO 250A/250B with a grade of C or better**Corequisites:** BIO 251A/251B (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 295 Topics in Biology (1-4)****Corequisites:** BIO 297

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)

**BIO 297 Topics in Biology Laboratory (1-2)****Prerequisites:** BIO 297

Experimental component of Biology 295 if appropriate for the topic.

**BUSINESS ADMINISTRATION - BUS****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.

**BUS 105 Business Ethics (3)**

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.

**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)****Prerequisites:** BUS 201 and department chair or dean permission

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.

**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, re-engineering business processes, and statistical process control. Examines qualitative and quantitative methods in operations of well-known organizations.

**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.

**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.

**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.

**BUS 220 Principles of Finance (3)**

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.

**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.

**BUS 232 Advertising and Sales Promotion (3)**

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.

**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.

**BUS 236 Consumer Behavior (3)**

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.

**BUS 236 Consumer Behavior (3)**

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.

**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.

**BUS 246 Legal Environment of Business (3)****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.

**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.

**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.

**BUS 272 Social Media Marketing (3)**

Examines how to develop an effective strategy for communicating to a targeted audience using the accelerated tools available in an online market. Will touch on the use of Social Media, Email Marketing, Blogging, SEO and PPC advertisements to create engagement. It will also cover the use of Google Analytics to track performance.

**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.



## BUSINESS TECHNOLOGY - BTC

### 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.

### BTC 105 Proofreading and Editing Business Documents (2)

Emphasizes document formatting and review of basic related grammar and punctuation rules. Proofreading and editing techniques applied to business documents.

### BTC 130 Customer Service Excellence (1)

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.

### BTC 131 Telephone Communication Skills (1)

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.

### 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.

### 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.

### BTC 136 Electronic Communication with Stakeholders (3)

Apply fundamental communication rules and etiquette to electronic communication and calendars 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.

### 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.

### 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.

### BTC 145 Business Technology Tools (3)

**Corequisites:** BTC/CPT 103

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.

### BTC 160 Word Processing - MS Word (2)

**Corequisites:** BTC/CPT 103

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.

### 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.

### BTC 170 Spreadsheet Applications - Excel (3)

EPresentation 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.

### 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.

### BTC 190 Planning and Design Concepts-Microsoft Publisher (3)

**Prerequisites:** BTC/CPT 103

Focus is on preparation, planning, and design of various desktop publishing documents using Microsoft Publisher and progresses through publishing projects that will include business and marketing items. The course will transition from introductory concepts regarding preparation, planning and design to putting that information in to practice by creating cohesive publishing projects that mimic real-world applications.

### BTC 245 Administrative Procedures (3)

**Prerequisites:** BTC 160 with a grade of C or better

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.

### BTC 247 Administrative Supervision (3)

**Prerequisites:** BTC 160 with a grade of C or better

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.

### BTC 250 Business Simulations (3)

**Prerequisites:** BTC 103, BTC 138, BTC 160, BTC 165, BTC 170, BTC 175 with a grade of C or better

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.

## CHEMISTRY - CHM

### CHM 099 Pre-A&P Foundations in Chemistry (2)

**Prerequisites:** MAT 098

This course will serve as a chemistry prerequisite for Anatomy and Physiology I for students. This will not replace CHM 101/103 or CHM 106 in a degree, and does not serve as a general education course. It is assumed this is the first chemistry course taken by the student. Topics include structure of atoms, bonding, solutions, acid-base, chemical reactions, energy and gases. This course will be graded on a Pass/Fail basis. This course does not count toward graduation.

### CHM 101 Introduction to Chemistry (3)

**Prerequisites:** MAT 098 with a grade of C or better

**Corequisites:** CHM 103

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.

### CHM 103 Introduction to Chemistry Laboratory (1)

**Prerequisites:** CHM 101

Hands-on course with emphasis on proper laboratory techniques and experimental activities that illustrate concepts studied in 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 or higher 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.

### 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, oxidation-reduction reactions, nuclear chemistry, and introduction to organic chemistry. Experiments continue to introduce and improve laboratory skills and problem solving.

### CHM 222 Quantitative Analysis (4)

**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; electroanalytical chemistry, gravimetric and volumetric analysis; spectrophotometric analysis and an introduction to chromatography.

### 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.

**Corequisites:** CHM 243

Continuation of study of structure, nomenclature, properties, synthesis and reactions of aliphatic and aromatic carbon compounds with emphasis on chemistry of carbonyl compounds.

### CHM 243 Organic Chemistry Laboratory (2)

**Prerequisites:** CHM 240 with a grade of C or better.

**Corequisites:** CHM 241

Hands-on introduction to laboratory techniques and procedures of organic synthesis and identification.

## CHILD CARE & EARLY EDUCATION - CDC

### 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.

**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.

**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 and CDC 112  
**Corequisites:** CDC 105 and CDC 109

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.

**CDC 105 Early Childhood Practicum I (2)**

**Prerequisites:** CDC 101 and CDC 112  
**Corequisites:** CDC 105 and CDC 109

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.

**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.

**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.

**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.

**CDC 109 Early Childhood Practicum I Seminar (1)**

**Prerequisites:** CDC 101 and CDC 112  
**Corequisites:** CDC 104 and CDC 105

Provides opportunities for discussion and collaboration among students about field experiences. It supports course objectives from CDC 105.

**CDC 112 Child Growth and Development I: Prenatal through Early Childhood (3)**

**Corequisites:** 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.

**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.

**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.

**CDC 203 Early Childhood Practicum II (2)**

**Prerequisites:** CDC 101, CDC 104, CDC 105, CDC 109 and CDC 112

**Corequisites:** CDC 206, CDC 209 and CDC 210

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.

**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.

**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.

**CDC 206 Early Childhood Practicum III (2)**

**Prerequisites:** CDC 101, CDC 104, CDC 105, CDC 109 and CDC 112

**Corequisites:** CDC 203, CDC 209 and CDC 210

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.

**CDC 207 Curriculum and Materials for Young Children with Special Needs (3)**

**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.

**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.

**CDC 209 Early Childhood Practicum II Seminar (1)**

**Prerequisites:** CDC 101, CDC 104, CDC 105, CDC 109 and CDC 112

**Corequisites:** CDC 203, CDC 209 and CDC 210

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.

**CDC 209 Early Childhood Practicum II Seminar (1)**

**Prerequisites:** CDC 101, CDC 112 and one additional CDC course

Provides opportunities for discussion and collaboration among students about field experiences. The seminar supports course objectives from CDC 206.

**CDC 209 Early Childhood Practicum II Seminar (1)**

**Prerequisites:** CDC 101, CDC 112 and one additional CDC course

Provides opportunities for discussion and collaboration among students about field experiences. The seminar supports course objectives from CDC 206.

**COLLEGE DEVELOPMENT - COL****COL 090 College Study Skills (3)**

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. *Contact department chair for course availability.* This course does not count toward graduation.

**COL 101 College Success Seminar (1)**

For freshman students covering various aspects of college life including resources and procedures, interacting with instructors, instructor expectations, critical thinking, goal setting and commitment, learning styles, development of network and support groups, value of education and philosophy of learning, identification of student interests and needs, technology used in college classes and study skills. Required of all first-time freshmen students.

**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.

**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 Assessment (1)**

**Prerequisites:** ENG 101 and sophomore standing

**Corequisites:** Students should take this course after completing 30 hours of their 42 hour AA general education transfer block.

Students will complete activities from 3 different general education discipline areas: Humanities, Social Science, and Multicultural/Valuing which will include evidence of Higher Order Thinking (HOT) and Managing Information (MI). Students may bring 1 artifact from a previous General Education course and revise it to meet the capstone criteria.

**COMMUNICATION - COM****COM 100 Pronunciation and Communication for Non-Native Speakers (4)**

**Corequisites:** ESL 100, ESL 104 and suggested corequisite ESL 107

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.

**COM 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.

**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.

**COM 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.

**COM 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.

**COM 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.

**COM 106 Public Speaking (3)**

In-depth look at art of public speaking. Expands knowledge of ideas and concepts presented in COM 101. Focus on presenting additional types of speeches, including business and organizational, ceremonial, speeches of tribute, acceptance, and toasting.

**COM 110 Interpersonal Communication (3)**

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.

**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.

**COM 116 Voice and Diction (3)**

**Prerequisites:** COM 101

Study of the development and understanding of respiration, phonation, resonance, articulation, and diction. Student may not receive credit for both COM 116 and THE 115.

**COM 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.

**COM 121 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.

**COM 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.

**COM 124 History of Film (3)**

History of cinema from late 19th century beginnings to present. Attention given to

technological, economic and artistic issues. Classic films of various directors and countries. Weekly viewings required.

**COM 200 Argumentation and Debate (3)**

**Prerequisites:** COM 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.

**COM 201 Leadership Theory and Development (3)**

**Prerequisites:** COM 101 or COM 106 or COM 110 or instructor permission

Leadership, the ability to influence other's behaviors and thoughts to accomplish a goal, is a responsibility faced in a variety of personal and professional contexts. Learn what it means to be a leader, how different leadership styles are utilized and how cultural, ethical and moral pressures affect leadership. Students will identify areas for personal growth and improvement in leadership positions as they learn and develop their own leadership skills, values, ethics and morals. Examination of leadership theory and development will be from a variety of backgrounds.

**COM 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.

**COM 210 Oral Interpretation (3)**

**Prerequisites:** COM 101

Basic study of the principles of oral interpretation and their application performance. Student may not receive credit for both COM 210 and THE 210.

**COM 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.

**COM 225 Professional Communication (3)**

**Prerequisites:** COM 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.

**COM 232 Advertising and Sales Promotion (3)**

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. Course is equated to BUS 232.

**COM 240 Writing for the Print Media (3)**

**Prerequisites:** ENG 101 with a grade of C or better

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.

**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)**

**Prerequisites:** COM 102 or COM 115 or instructor permission

Practical application of mass media content production. Emphasizes production experience on official student publications or Public Relations projects.

**COM 282 Applied Communication Practicum III (3)**

**Prerequisites:** COM 281

Practical application of mass media content production. Emphasizes production experience on official student publications or Public Relations projects.

**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.

**COM 296 Mass Communication Internship (1-3)**

**Prerequisites:** COM 102 or instructor permission

Students placed in participatory position in mass media corporation or organization. Includes assignments related to internship.

**COMPUTER-AIDED DRAFTING - CDM****CDM 103 CAD Systems I (3)**

**Prerequisites:** COM 102 or instructor permission

Utilization of the latest version of AutoCAD to create, edit, and store introductory computer drawings. Involves draw and modify commands, layer creation, blocks, and dimensioning. Includes orthographic views, layouts, viewports, paper/model space, scaling, and lineweights. Basic design elements and drafting standards considerations are provided.

**CDM 104 CAD Systems II (3)**

**Prerequisites:** CDM 103 with a grade of C or better

The latest version of AutoCAD is used to perform intermediate level CAD commands. Modifications of dimension properties and tolerancing are addressed. 3D modeling is introduced. Isometric, oblique, sectional, and auxiliary views are created. Multiple layouts, block editing, datalinked tables, external references (XREFs), attributes, concept hand sketching, and drafting symbols are covered.

**CDM 205 Architectural Drafting I (3)**

**Prerequisites:** CDM 104

Uses the latest version of AutoCAD Architecture to perform introductory construction techniques, foundation plans, and material requirements. Basic, standardized architectural practices are involved with floor plans, exterior elevations, and specific architectural layering.

**CDM 206 Architectural Drafting II (3)**

**Prerequisites:** CDM 205

Acquisition of intermediate level architectural drafting using the most recent version of AutoCAD Architecture. Understanding of site planning, load design elements, framing methods, alternative elevations, and beam sizing. Involves knowledge attainment of millwork and cabinet technology, rendering methods, and building codes.

**CDM 207 Revit Architecture I (3)**

**Prerequisites:** CDM 104

Learning of introductory elements of the latest version of Revit CAD software. Acquisition of Building Information Modeling (BIM) knowledge. Perspectives on shared user design utilized in commercial architecture. Perform drawing designs using Revit for floor plans, elevations, sections, and rendering. Perform building estimates and schedules, and construction document sets.

**CDM 208 Revit Architecture II (3)****Prerequisites:** CDM 207

Utilization of most recent version of Revit software to design a three story commercial project. Understanding of practices for commercial models, view, dimensions, families, and editing. Learning of landscaping, curbing, parking, and walkway design. 3D design incorporation of foundation setting, beams, and footings. Creating of custom stairs and railings. Comprehension of intermediate level BIM practices.

**CDM 210 HVAC Drafting (3)****Prerequisites:** CDM 207

Utilizes the latest AutoCAD software to draw HVAC designs, schedules, and reference data. Knowledge acquisition of relevant HVAC scientific elements- including heat, thermodynamics, and combustion. Course topics include heating and air conditioning systems/designs.

**CDM 211 Structural Drafting (3)****Prerequisites:** CDM 104

Perform structural shop drawings using the most current version of AutoCAD. Achieve conceptual understanding of structural design and economic considerations. Acquire understanding of steel grades and shapes. Learn framing elements, and use critical tables and reference materials for structural designs.

**CDM 212 Electrical/Electronic Drafting (3)****Prerequisites:** CDM 104

Uses the latest version of AutoCAD Electrical to draw schematics, logic diagrams, and wire diagrams. Acquire understanding of electronics symbols, components, and references. Apply elements into CAD designs with circuit boards, wiring, and cabling. Use electrical drafting layers on a building floor plan.

**CDM 221 Solid Modeling I (3)**

Uses the current version of SolidWorks software to introduce 3D design elements for creating parts, assemblies and engineering drawings. Applications are involved with basic parametric modeling related to the engineering design process using Design Intent. Basic 2D sketches are transformed into 3D parts. Those parts are modified and imported into assemblies which

are then employed in custom drawing sheets.

**CDM 222 Solid Modeling II (3)****Prerequisites:** CDM 221

Uses the current version of SolidWorks software for intermediate 3D modeling. Course goal is to further develop solid modeling skills and knowledge of the SolidWorks software package. Student will develop an understanding of advanced techniques for the application of Mold Design, Sheet Metal, Photoview 360, Simulation Finite Element Analysis (FEA), Surfaces, Advanced Feature and Assembly Modeling. Students will have an opportunity to take the Certified SolidWorks Associate Exam in class.

**CDM 223 Geometric Dimensioning/Tolerance (3)****Prerequisites:** CDM 104

Uses the latest AutoCAD version to apply advanced dimensioning and tolerancing. Understanding of drafting symbols, tolerance calculations, datums, material conditions, and material boundaries. Application of form, orientation, and location tolerances. Understanding of profile and runout tolerances.

**CDM 227 Revit MEP (3)****Prerequisites:** CDM 207

Teach concepts, principles, and applications of 3D parametric models and computer designs using Autodesk Revit software. Create, document and print mechanical, electrical, and plumbing (MEP) components in shared (multiuser) model structure. Provide applications relevant to construction, architecture, industry, and engineering.

**CDM 255 Civil Drafting (3)****Prerequisites:** CDM 104

Utilizes the latest version of AutoCAD Civil 3D software. Demonstrate basic civil technical information, including topographic mapping, profiles/contours, highway plans, roadway/subdivision layouts, site grading, and sewer designs. Demonstrate survey point, and surface layouts. Complete roadway alignments, profiles, assemblies, and corridors. Process terrain data.

**CDM 270 Externship (3)****Prerequisites:** CAD/CDM department chair permission and meet externship requirements

Involves obtaining credit for workplace learning of computer-aided drafting practices, methods,

and applications. Must have an existing or pending CAD learning employment situation before seeking approval by the CAD Program Coordinator. Course involves validation of workplace learning and a documented report of learning experiences.

**CDM 298 CAD/CAM Capstone (1)****Corequisites:** Application for graduation

Enrollment can occur during the last semester of study for a Certificate of Achievement, or during the last or next-to-last semester for an Associates Degree. Class involves meetings to organize materials and planning for employment (or future advancement) interaction with SCC Career Services Dept. is included. A portfolio of coursework drawing designs, sketches, and other drafting work is developed. Standardized assessments, including Missouri and National drafting standards, are performed.

**COMPUTERS - CPT****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 BTC 103 and CPT 103.

**CPT 104 Introduction to Programming for Animation and Computer Games (3)****Prerequisites:** CPT 135 and CPT 165 or instructor permission

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.

**CPT 105 Ethics in Technology (3)**

Introductory survey of classical and contemporary ethical theories related to technology use today and problems with an emphasis on case studies and examples.

**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.

**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.

**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.

**CPT 125 Introduction to Project Management (3)**

This course will introduce the students to the basic principles of Project Management. The students will be taught five of the ten Knowledge Areas of the Project Management Body of Knowledge (PMBOK).

**CPT 130 Introduction to UNIX Operating System (3)****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.

**CPT 135 Programming in Python (3)****Prerequisites:** CPT 165 (previous or concurrent)

Learning good problem-solving techniques using the Python programming language. Object-oriented concepts are included.

**CPT 140 Data Visualization (3)****Prerequisites:** CPT 165, CPT 135, BTC 170, MAT 175 and CPT 181

Introduction to key concepts in data visualization and reporting. Includes concepts and methods used in graphical representation of data, exploration and reporting of data,

and basic linear regression methods. Upon completion, students should be able to effectively use graphical tools to communicate insights about data.

**CPT 160 Mobile Apps Development (3)****Prerequisites:** CPT 135 and CPT 165 or instructor permission

Developing applications for mobile devices on various platforms.

**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 machine-oriented or high-level languages currently available. Students will also cover the basics of project management and the project life cycle.

**CPT 181 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.

**CPT 182 Beginning Programming in C++ (3)****Prerequisites:** CPT 135 and CPT 165 or instructor permission

Working knowledge of object-oriented programming using C++ language. Features extensive hands-on programming development using C++ compiler on IBM-compatible system.

**CPT 185 Programming in C# (C Sharp) (3)****Prerequisites:** CPT 135 and CPT 165 or instructor permission

Object-oriented approach to programming as well as the C# programming language.

**CPT 187 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 189 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).

**CPT 198 Computer Science Internship (1-3)****Prerequisites:** Department chair or dean permission

Requires prior approval of department chair or dean. Students placed in a position in business to gain practical experience and learn specific operational technologies.

**CPT 200 Systems Analysis and Design (3)****Prerequisites:** Take 1 group: CPT 182 & CPT 187 or CPT 189 & CPT 287 or CPT 240 & CPT 260 or instructor permission. (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.

**CPT 201 Introduction to Database Management (3)****Prerequisites:** CPT 103 or instructor permission

Practical foundation for the design, implementation and management of database systems. Includes the Internet's impact on how databases are designed, implemented and used.

**CPT 204 Advanced Applications (3)****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).

**CPT 207 Career Development for Technology Professionals (1)**

Learn from industry leaders the best way to interact with peers, management, upper management, customers and subordinates. Attend weekly talks with technology leaders either in person, via video conferencing, and in prerecorded interviews to learn the best way to navigate the working environment.

**CPT 210 Analytical Tools and Methods (3)**

**Prerequisites:** CPT 165, CPT 135, BTC 170, MAT 175 and CPT 181

Focus is on the advanced statistical and analytic tools for use in decision-making. Included, an overview of data mining, unsupervised machine learning techniques, analysis of semi-structured and unstructured data, and text analytics. Upon completion, students should be able to analyze complex data with modern analytical tools and methods.

**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.

**CPT 225 Advanced Topics in Project Management (3)**

**Prerequisites:** Prerequisites: CPT 125

This course is an extension of the CPT-125 Introduction to Project Management and will introduce the students to more advanced concepts. The students will be introduced to the remaining five of the ten Knowledge Areas of the Project Management Body of Knowledge (PMBOK). The students will also run a simulated project.

**CPT 230 Advanced UNIX (3)**

**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.

**CPT 235 Understanding Big Data w/Spark (3)**

**Prerequisites:** CPT 165, CPT 135, BTC 170, MAT 175 and CPT 181

Introduction to Apache Spark and its use in analyzing big data with algorithms written in Python. Perform statistical data analysis, data visualization, predictive modeling, and build scalable data products or solutions. Also introduces R and Scala as alternate development languages.

**CPT 243 Intranets and E-Commerce (3)**

**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.

**CPT 245 Telephony (3)**

**Prerequisites:** CPT 115

Coverage of signaling protocols used in telephony and the convergence of the telephone network with data networks.

**CPT 246 Computer Security (3)**

**Prerequisites:** CPT 121

Exploration of LAN and WAN network security issues and various resolutions to the problems.

**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.

**CPT 250 Database Programming (3)**

**Prerequisites:** CPT 135 and CPT 165 or instructor permission

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 181 or instructor permission

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.

**CPT 265 DB2 Programming (3)**

**Prerequisites:** CPT 181 or instructor permission

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.

**CPT 265 DB2 Programming (3)**

**Prerequisites:** CPT 165, CPT 201 and 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 and 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 281 Advanced Programming in C++ (3)**

**Prerequisites:** CPT 182

Advanced programming topics using the C++ language. Emphasis on data structures and file handling.

**CPT 282 Advanced Visual Basic.NET (3)**

**Prerequisites:** CPT 187

Advanced Visual Basic.NET topics include object-oriented programming, database integration, functions, and procedures.

**CPT 287 Introduction to Data Structures (3)**

**Prerequisites:** CPT 182 or CPT 187 or CPT 189

This class will provide students with the opportunity to master advanced programming techniques to obtain a higher level understanding of Object Oriented Design (OOD), and Object Oriented Analysis (OOA).

**COMPUTERS - CPT****CPM 120 Windows Multimedia (3)**

Multimedia refers to computer-based applications that allow for the communication of ideas and information with digital and print elements. Introduction to current multimedia topics, technologies and techniques using current Microsoft Windows based on software applications. Computer literacy, including the understanding of file format, file structure and file storage, is required.

**CPM 160 Introduction to HTML (3)**

Course includes hands-on scripting of HTML5 and CSS3 to develop well-designed websites. Learn to enhance a site with audio and visual clips, forms with HTML5 data validation, or CSS3 transitions. Use JavaScript and jQuery to add features like accordions, tabs, and slide shows to a page. Explore the principles of web design and Search Engine Optimization (SEO), as well as how to deploy your finished sites. Create Responsive Web Design so pages will look great and work correctly on any screen, from phone to tablet to desktop.

**CPM 170 Computer Graphics (Adobe Illustrator) (3)**

Designed to examine vector graphics software to create commercial design and illustrations for multimedia presentation. Emphasis will include use of tools, workspace and current commercial design trends. Adobe Illustrator is the industry-standard vector graphics software and used alongside Adobe Creative Cloud to allow students to create and develop products based on modern commercial graphic design, which could include logos, graphics, fonts and layouts.

**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 210 Digital Photo Editing (Adobe Photoshop) (3)**

Students learn techniques needed to correct, enhance and modify digital photos, create image composites, and prepare images for print or the web using the most popular current digital photo editing software Adobe Photoshop. Emphasis on vector drawing, video editing, mixing colors and painting, and preparing for printing on screen or in 3D. Computer literacy, including the understanding of file formats, file structure and file storage, are required.

**CPM 220 3D Animation (3)**

Hands-on course includes the popular easy-to-use 3D modeling application SketchUp. Provides foundational understanding of the 3D drawing, design and rendering tools offered in this powerful software. Includes navigating the interface, manipulating objects, drawing in 2D and 3D space, leveraging organizational tools, and working with materials and textures. Students will work with reusable components and apply simple styles and animation to 3D projects.

**CPM 230 Social Media Marketing (3)**

Examines how to develop an effective strategy for communicating to a targeted audience using the accelerated tools available in an online market. Will touch on the use of Social Media, Email Marketing, Blogging, SEO and PPC advertisements to create engagement. It will also cover the use of Google Analytics to track performance.

**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.

**CPM 250 Web Animation (Adobe Flash) (3)**

Hands-on course teaches the popular software Adobe After Effects and provides a comprehensive set of 2D and 3D tools for animation and visual effects. Includes integration video, audio, graphics, and Photoshop and Illustrator files; animating techniques; masking, keying and tracking, compositing, animation and rendering to create powerful motion graphics.

**CPM 260 WordPress (3)**

Focus on the benefits of using self-hosted WordPress, the leading platform used to develop a web presence in today's market that is SEO friendly, secure and ready to support a company's digital marketing strategy. Explores how to securely set-up WordPress, how to customize a theme to create a unique design, general maintenance techniques, and how to expand a site's functionality to include e-commerce and membership solutions.

**CPM 270 Digital Video Editing (Adobe Premiere) (3)**

Introduction to digital video editing using Adobe Premiere. Gain hands-on experience with the latest digital video editing tools and techniques to create videos for broadcast and social media. Learn how to build complex moving images, incorporate video and audio effects, create graphics and finalize a project for use across multiple screen formats.

**CPM 280 Javascript (3)**

**Prerequisites:** CPM 160

Writing script through use of Javascript programming language to create interactivity and animation for Web pages.

**CPM 290 Topics in Multimedia (3)**

Instructor's permission required. Independent in-depth study on web development or multimedia topic/software. Topics can include Advanced Photoshop, Advanced Illustrator, cartoon and game animation, web scripting languages, portfolio development or a topic of choice.

**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.

## CRIMINAL JUSTICE - CRJ

### CRJ 101 Introduction to Victimology (3)

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.

### 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.

### CRJ 104 Treatment: Alcohol and Drug Abuse (3)

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.

### CRJ 110 Criminal Investigations (3)

Introductory perspective on the tactics, strategies, and techniques of criminal investigations.

### 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.

### CRJ 165 Introduction to Security (3)

Survey of security systems and techniques, security surveys, and economic factors related to security.

### 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.

### 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.

### 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.

### 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.

### 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.

### 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.

### 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.

### CRJ 224 Constitutional Law (3)

Examines United States Constitution and relationship to American Society as a whole and criminal justice system in particular.

### 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.

### 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.

### 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.

### CRJ 260 Community Policing (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.

### CRJ 265 Internship (1-6)

**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.

### CRJ 266 Internship II (1-6)

**Prerequisites:** CRJ 265

Students enroll in Criminal Justice Practicum a second time.

### 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.

### CRJ 290 Special Topics in Criminal Justice (1-3)

**Prerequisites:** Instructor permission

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.

### CRJ 291 Mock Trial (1-3)

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.

### CRJ 292 Mock Trial Competition (1-3)

**Prerequisites:** CRJ 291

Students compete in American Mock Trial Association Regional Tournament.

### 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.

## DIVERSITY - DC

### DC 299 Diversity Portfolio (1)

For students who completed a semester study-abroad program or four courses denoted as diversity courses (as one of three choices for the second part of the certificate). Students will work with the Academic Diversity Initiatives Lead in an independent study. Student will write a paper/response about diversity from three scholarly articles, a film, book, or speech/festival, event or performance that explores diversity.

## ECONOMICS - ECO

### ECO 100 Survey Economics (3)

**Prerequisites:** MAT 096 or placement into MAT 098

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.

### ECO 110 Principles of Macroeconomics (3)

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.

### ECO 120 Principles of Microeconomics (3)

**Prerequisites:** MAT 098 or placement into MAT 121

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.

### ECO 220 Money and Banking (3)

**Prerequisites:** ECO 110

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.

## EDUCATION - EDU

### EDU 125 Teaching Literacy Through Storytelling (3)

Learn to communicate through the magic of storytelling. An auditory form of learning that can enhance curricula.

### 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.

### 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.

### 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.

### 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.

**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.

**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.

**EDU 212 Foundation of Education in a Diverse Society (3)**

**Prerequisites:** ENG 101

Examine educational practice from diverse historical, philosophical, sociological, economic, and legal perspectives, Emphasis will be on educational equity, sociocultural influences on teaching and learning, and how teachers and schools can contribute to interpersonal and intercultural understanding and respect, social justice and democratic citizenship. Explore the nature of school environments, the fundamental goals of education in the American public school, English Language Learners, the relationship between school and diverse society, the organization of school curricula, and characteristics of effective schools and instruction in grades P-12. In addition, students will complete 8 hours of observations/presentations in K-12 classrooms in the community, during regular K-12 school day hours.

**EDU 222 Educational Technology (3)**

**Prerequisites:** ENG 101 and EDU 212 with a grade of C or better or instructor permission

Learn how to integrate instructional technology into P-12 classrooms, through a variety of software programs, presentation technology,

telecommunication tools, and assistive technology. Focus will also be on social, ethical, legal, and human issues surrounding the use of technology. In addition, students will complete 5 hours of observation in K-12 classrooms in the community, during regular K-12 school day hours.

**EDU 225 Literature for Children (3)**

**Prerequisites:** EDU 212 or department permission

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. Students will complete 8 hours of observations/presentations in K-12 classrooms in the community, during regular K-12 school day hours.

**EDU 240 Educational Psychology (3)**

**Prerequisites:** EDU 212 with a grade of C or better or department permission and PSY 101 and ENG 101 or placement 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.

**EDU 242 Art for Children (3)**

**Prerequisites:** ENG 101 or higher and EDU 212 or department permission

Experience in teaching techniques of various appropriate media of visual arts and uses in elementary and middle school curricula. In addition, students will have one off campus meeting that will take place at the St. Louis Art Museum.

**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.

**EDU 245 Integrating Movement and the Arts in Elementary Education (3)**

**Prerequisites:** EDU 212

Provides methods for pre-service teachers to integrate movement and the arts (physical and kinesthetic activity as well as literary) and fine arts into traditional classroom disciplines (communication arts, math, science and social studies).

**EDU 246 Music for Children (3)**

**Prerequisites:** EDU 212 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.

**EDU 247 Multicultural Education (3)**

**Prerequisites:** ENG 101

Examines the multicultural context of education and prepare students to understand and teach learners from diverse backgrounds, with diverse characteristics, and with differing social identities. The course will address issues of educational equity, sociocultural influences on teaching and learning, and how teachers and schools can contribute to interpersonal and intercultural understanding and respect, social justice, and democratic citizenship.

**EDU 250 Education of Exceptional Learners (3)**

**Prerequisites:** EDU 240 and EDU 212 with a grade of C or better in both courses

Introduction to exceptional learners and their education in grades PK-12. Knowledge, skills and dispositions that will enable students to work effectively with exceptional learners in general education or special education will be covered. Students will complete 20 hours of observations in K-12 classrooms in the community, during regular K-12 school day hours.

**EDU 252 Autism Spectrum Disorders (3)**

**Prerequisites:** EDU 212 or department permission

**Corequisites:** EDU 250

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.

**EDU 255 Social Communication and Sensory Integration (3)**

**Corequisites:** EDU 212 and 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.

**EDU 280 Practicum for Paraprofessionals (2)**

**Prerequisites:** EDU 212, EDU 222, EDU 240, EDU 250 and EDU 252

**Corequisites:** EDU 285

Culminating course for the A.A.S. for Paraprofessional degree. 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 being a Paraprofessional. Students will complete 45 practicum hours in PK-12 classrooms, in the community. Investigation and discussion will relate to the profession.

Students must be available to participate in local PK-12 classrooms during the regular school day.

**EDU 285 Teaching Profession With Field Experience (3)**

**Prerequisites:** ENG 101 and EDU 212, EDU 222 and EDU 240 with a grade of C or better in the EDU courses

This course includes an introductory, minimum 30 hours of school field experience in accredited P-12 classroom(s) that provide opportunities to observe and contribute to teaching and learning. Allows preservice teachers to connect firsthand school experience with an emerging professional knowledge base. Develops professional knowledge of diverse educational settings through observation, instruction, experience and reflection. Assists students in determining if a career in teaching is an appropriate goal. Requirements for teacher preparation and certification are reviewed.

**EDU 286 Education Practicum (1)**

**Prerequisites:** ENG 101, EDU 212, EDU 222 and EDU 240 with a grade of C or better in the EDU courses

**Corequisites:** EDU 285

Required clinical experiences in P-12 public schools. Covers day-to-day realities of professional and instructional issues in order to provide a realistic understanding of the teaching profession. Special emphasis on aligning instructional processes and content knowledge. Must be taken concurrently with EDU 285.

Students will complete 45 practicum house, over eight weeks in P-12 public school classrooms in the community. Generally, hours are completed as 5-8 hours each week, two days per week, on alternating days from the class meeting days. The 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 P-12 classroom teacher. Instructor will observe and evaluate students in as he/she is fulfilling their practicum experience.

**EDU 290 Portfolio Assessment in Education (1)**

**Prerequisites:** EDU 212, EDU 222 and EDU 240 with grade of C or better and completion of all sections of the MEP State Exam and successful passage of all sections of the MoGEA State Exam indicated by a score of 220 or higher in each area.

**Corequisites:** EEDU 285

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 MoSPE/MIPEC standards. Portfolios will be retained by the Education program as assessment evidence for accrediting bodies.

**ELECTRONICS - ETC****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.

**ENGINEERING - EGR****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.

**EGR 104 Engineering Design (3)**

**Prerequisites:** MAT 121 or higher with a passing grade

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.

**EGR 170 Engineering Mechanics I - Statics (3)**

**Prerequisites:** MAT 230 and PHY 250

**Prerequisites:** MAT 240

Application of principles of mechanics to engineering problems of equilibrium. Includes resultants, equilibrium, friction, trusses, center of gravity and moment of inertia.

**EGR 170 Engineering Mechanics I - Statics (3)**

**Prerequisites:** MAT 230 and PHY 250

**Prerequisites:** MAT 240

Application of principles of mechanics to engineering problems of equilibrium. Includes resultants, equilibrium, friction, trusses, center of gravity and moment of inertia.

**EGR 210 Engineering Mechanics II - Dynamics (3)**

**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.

**EGR 220 Electrical Circuits I (3)**

**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 (1)**

**Prerequisites:** MAT 230

**Corequisites:** EGR 220

Laboratory to accompany Electrical Circuits I.

**EGR 296 Engineering Internship (3)**

**Prerequisites:** EGR 100 with a passing grade

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.

**ENGLISH - ENG****ENG 095 Developmental Writing I (3)**

**Prerequisites:** Writing Placement Score 1-2 and placement into 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. This course does not count toward graduation.

**ENG 096 Developmental Writing II (3)**

**Prerequisites:** Placement into ENG 096 or ENG 095 with a Pass grade

**Corequisites:** ENG 101

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. This course does not count toward graduation.

**ENG 101 English Composition I (3)**

**Prerequisites:** One of the following: Placement into ENG 101 or ENG 096 with a Pass grade or ESL 109 and ESL 106 with a grade of C or better (Student may be able to 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.

**ENG 102 English Composition II (3)**

**Prerequisites:** One of the following: Placement into ENG 101 or ENG 096 with a Pass grade or ESL 109 and ESL 106 with a grade of C or better (Student may be able to 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.

**ENG 115 Technical Writing (3)**

**Prerequisites:** ENG 101 with a grade of C or better

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.

**ENG 125 Business Writing (3)**

**Prerequisites:** ENG 101 with a grade of C or better

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.

**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.

**ENG 202 Creative Writing II (3)**

**Prerequisites:** ENG 201

An extension of ENG 201, with emphasis placed on advanced techniques for writing poetry, fiction, nonfiction and drama. Student work will undergo regular workshoping, and significant attention will be paid to learning about the world of publishing literary journals, both through the lens of potential submitters and as editors of a magazine.

**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.

**ENG 206 Fiction Writing (3)**

Advanced creative writing with emphasis on guided editing and revision of narrative forms including essay, fiction, and creative non-fiction.

**ENG 207 Poetry Writing (3)**

Advanced poetry writing with emphasis on open discussion of student work and individualized critique by instructor and peers.

**ENG 208 Writing for Stage and Screen (3)**

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.

**ENG 209 Writing Creative Nonfiction (3)**

Advanced writing of various forms of creative nonfiction, including but not limited to memoir, autobiography, travel writing, lyric and meditative essay, and others, with emphasis on open discussion of student work and individualized critique by instructor and peers.

**ENG 210 Writing Science Fiction, Fantasy, and Surrealism (3)**

An examination of the technique and craft of writing fiction through the specific lens of writing science fiction, fantasy and surrealism, three of the most popular genres in American writing. Includes genre trends as the back drop for developing their abilities as writers of short fiction.

**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.

**ENG 250 Advanced Creative Writing Workshop (3)**

**Prerequisites:** ENG 206 or ENG 207 or ENG 208 or ENG 209 or ENG 210 or instructor permission

An advanced creative writing workshop for students who have completed either Fiction Writing, Poetry Writing, Writing for Stage and Screen, or Writing Creative Nonfiction, in which students will further hone their skills and polish their work in a workshop setting. Instructor and class-wide feedback will be the primary form of response.

**ENG 280 Linguistics: The Science of Words (3)**

**Prerequisites:** ENG 101

Introduction to linguistics, the study of how language forms and changes. Includes phonetics, phonology, morphology, syntax, and semantics, along with language acquisition and development, and pragmatics.

**ENG 298 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.

**ENG 299 Topics in Creative Writing (3)**

Special topics writing class. Topics vary semester to semester.

**ENGLISH AS A SECOND LANGUAGE - ESL****ESL 100 SCC Success and Skills for Non-Native Speakers (3)**

**Corequisites:** Placement into ESL 104(RDG 104), ESL 107 or equivalent skill level, ESL 199 (unless a student has previously attended a semester at a U.S. college and has taken an equivalent course or the student has been a resident for more than two years).

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.

**ESL 103 Pronunciation, Communication, and Listening for Non-Native Speakers (4)**

**Corequisites:** ESL 100, ESL 104 and suggested corequisite ESL 107 or equivalent skill level (not required)

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.

**ESL 104 College Reading for Non-Native Speakers (4)**

**Corequisites:** ESL 100, ESL 103 and suggested corequisite ESL 107

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.



**ESL 105 Advanced Conversation and Speaking Skills for Non-Native Speakers (3)**

**Prerequisites:** ESL 103/COM 100 or equivalent skill level and ESL 104 with a grade of C or better

**Corequisites:** ESL 106 and suggested corequisite ESL 108

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. (This course is equivalent to COM 101)

**ESL 106 Advanced College Reading for Non-Native Speakers (3)**

**Prerequisites:** MAT 230 and PHY 250

**Corequisites:** MAT 240

Application of principles of mechanics to engineering problems of equilibrium. Includes resultants, equilibrium, friction, trusses, center of gravity and moment of inertia.

**EGR 170 Engineering Mechanics I - Statics (3)**

**Prerequisites:** ESL 103, ESL 104 (RDG 104) and ESL 100 with a grade of C or better

**Corequisites:** ESL 105 and suggested corequisite ESL 108

Application of principles of mechanics to engineering problems of equilibrium. Includes resultants, equilibrium, friction, trusses, center of gravity and moment of inertia.

**ESL 107 Intensive Grammar Review for Non-Native Speakers (4)**

**Corequisites:** ESL 100, ESL 103 and suggested corequisite of ESL 104

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.

**ESL 108 Intermediate Composition for Non-Native Speakers (3)**

**Prerequisites:** ESL 107 and ESL 104 (RDG 104) or equivalent with a grade of C or better

**Corequisites:** ESL 100, ESL 105 and suggested corequisite ESL 106

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.

**ESL 109 Research Writing for Non-Native Speakers (3)**

**Prerequisites:** ESL 105, ESL 106 and ESL 108 with a grade of C or better (ESL 105 can be waived with department approval.)

Laboratory to accompany Electrical Circuits I.

**EGR 296 Engineering Internship (3)**

**Prerequisites:** EGR 100 with a passing grade

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.

**ESL 112 Academic Vocabulary Across the Disciplines (1)**

**Prerequisites:** INE 101, INE 102, INE 199 and ESL 100 or placement into ESL classes

**Corequisites:** RDG 111 (recommended but not required)

Improve academic vocabulary beyond what is commonly taught in ESL 100. Explore the meaning, pronunciation, collocation and usage of number words in course areas that may be taken as part of general education classes, including science, psychology, math, literature, etc. as well as chosen majors.

**ESL 113 Advanced Vocabulary for Special Purposes (for Non-Native Speakers) (1)**

**Prerequisites:** INE 101, INE 102, INE 199 or placement in ESL classes

**Corequisites:** ESL 106, ESL 108 and ESL 109 (recommended but not required)

Concentration on teaching students vocabulary for one interest or career area, they will delve deeply into the usage, connotations, meanings, spelling and context of specialized words, slang or jargon. Online learning will be included. Recommended to be taken with ESL 299.

**ESL 115 Community as Classroom Lab (0)**

**Corequisites:** Corequisite to all classes that begin with ESL/INE prefixes or are cross-listed with classes that have ESL prefixes. Once enrolled in ESL, the students should be automatically put in this zero credit course.

This course includes writing and conversation labs that provide extra practice with difficult classroom concepts, from grammar and vocabulary to fluency and conversation, and in addition features field trips, opportunities for campus interaction, tutoring, guest speakers, independent work in the community, and practice on ESL computer learning platforms. Although some workshops/labs may be required, in this course students may choose opportunities best tailored to their needs and schedules.

**ESL 116 ESL Conversation and Current Events (1)**

**Prerequisites:** INE 101, INE 102, INE 199, placement above INE level or department permission

Conversation development based on current events, cultural issues and academic concerns. Vocabulary, spoken grammar skills and listening comprehension, will be emphasized.

**ESL 120 Success in Health Care Careers for Non-Native Speakers (3)**

**Prerequisites:** ESL 105 or equivalent skill level (department/instructor permission) and ESL 106 with a grade of C or better

**Corequisites:** ESL 108

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.

**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.

**Corequisites:** ESL 100 (co-requisite may be waived in some cases)

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.

**ESL 290 Academic English Practicum (1-4)**

**Prerequisites:** Placement by ESL department chair and a grade of C or better in ESL 105, ESL 106 and/or ESL 108

An immersive experience for students to demonstrate advanced competency with the English language as well as hone their receptive and productive language skills outside the academic environment. Course will require written and oral reflection through journals and discussions on content learned, and the professor must verify the students' attendance and participation in the setting

where the students are placed. This English-intensive experience could include volunteer opportunities/exchanges on campus, in the community, or abroad where World English is practiced. Additional language skills acquired outside the classroom will include idioms, conversational skills, cultural competence, and increased vocabulary (even in World English), with expectations consistent with the advanced level (ESL 109/COM 101). A grade of C is passing, but a B or better is required for this experience to count toward the Academic English certificate. Course could be offered with a service learning option. In certain cases, the department chair may allow this course to be substituted for one of the required courses in the Academic ESL Certificate.

**ESL 299 Academic English for Special Purposes (3)**

**Prerequisites:** ESL instructor or department chair permission

Focuses on practice of all four ESL skills of listening, reading, writing and speaking in a specific area, such as business, culinary skills, etc. Emphasis on application of English skills in mock real-life situations that ESL students may encounter in chosen field. Critical thinking and cultural differences will also be addressed. May be paired with a vocabulary class that addresses special topics as well. Recommended to be taken with ESL 113.

**FRENCH - FRN****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.

**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.

**FRN 190 Topics in French Language and Culture (1-3)**

**Prerequisites:** Dependent on topic

**Corequisites:** Dependent on topic

Exploration of special topics and/or activities in 100 level French language and culture. Prerequisite and corequisite dependent on topic.

**FRN 195 French Language and Civilization (1-9)**

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.

**FRN 201 French Language and Culture III (4)**

**Prerequisites:** Dependent on topic

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.

**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.

**FRN 210 Introduction to French Cinema (3)**

**Prerequisites:** FRN 102 with a passing grade

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. Student may not receive credit for both FRN 210 and GLC 210.

**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.)

**FRN 290 Topics in Intermediate French Language and Culture (1-6)**

Exploration of special topics in 200 level French language and culture. Prerequisite and corequisite dependent on topic.

**GEOGRAPHY - GEO****GEO 100 Principles of Geography (3)**

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.

**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.

**GEO 110 Geography for Educators (3)**

**Prerequisites:** Must be a declared Education major and completed or enrolled in EDU 210

**Corequisites:** EDU 210 (unless previously completed)

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.

**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.

**GEO 220 GIS Internship (1-3)**

**Prerequisites:** GEO 120 and instructor permission

Application of geographic technique and information learned in GIS class through work force experience.

**GEO 221 GIS Internship II (1-3)**

**Prerequisites:** GEO 220 and instructor permission

Application of advanced geographic techniques and information learned in GIS class through workforce experience.

**GEO 222 GIS Internship III (1-3)**

**Prerequisites:** GEO 221 and instructor permission

Application of advanced geographic techniques and information learned in GIS class through workforce experience.

**GEO 225 Advanced GIS (3)**

**Prerequisites:** GEO 120 or instructor permission

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.

**GEO 299 Topics in Geography (3)**

**Prerequisites:** Instructor permission

Exploration of topic selected by department. Introduction to research techniques and seminar approach as integral part of scholarship.

**GERMAN - GRM****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.

**GRM 102 German Language and Culture II (4)**

**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.

**GRM 190 Topics in German Language and Culture (1-3)**

**Prerequisites:** Dependent on topic

Exploration of special topics and/or activities in German language and culture.

**GRM 201 German Language and Culture III (4)**

**Prerequisites:** GRM 102 or 1 1/2 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.

**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.

**GRM 290 Topics in Intermediate German Language and Culture (1-3)**

**Prerequisites:** Dependent on topic

**Corequisites:** Dependent on topic

Exploration of special topics in 200 level German language and culture. Prerequisite and corequisite dependent on topic.

**GLOBAL CULTURE - GLC****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.

**GLC 133 Cultures of Central America and the Caribbean (1-3)**

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.

**GLC 135 Cultures of the Amazon and Andes (1-3)**

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.

**GLC 140 Celtic History and Contemporary Culture (1-3)**

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.

**GLC 145 The Theatre in London (1)**

Immersion trip into the theatre 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 theatre in the world.

**GLC 155 Central European History and Cultures (1-3)**

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.

**GLC 170 African Culture (1-3)**

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)**

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.

**GLC 190 Introductory Comparative Culture Study (1)**

Introductory comparative study between U.S. culture and other cultures around the world through real conversation and interaction with people from around the world. Includes comparative research on an aspect of U.S. culture and another culture around the world, represented by someone in the class. Class will include a service aspect, with native speakers or experienced second language speakers taking on a mentoring role with international students new to the country. Students will articulate their viewpoints about American culture along with their perceptions of international cultures. Class may be taken by American students, students from English-speaking countries, or ESL students whose country's governments require them to take non-ESL prefix classes.

**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. Student may not receive credit for both GLC 210 and FRN 210.

**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.

**GLC 290 Special Topics in Global Culture (3)**

**Prerequisites:** Instructor permission

Exploration of a humanities-based global topic selected by department. Global events, current or historical information, and geographical knowledge will be included.

**GLOBAL STUDIES - GLS****GLS 101 Introduction to Global Studies (3)**

**Prerequisites:** Instructor permission

Introductory course to develop global awareness and exposure to different cultures. Provides interdisciplinary approach to international and intercultural issues.

**GLS 290 Special Topics in Global Studies (3)**

**Prerequisites:** Instructor permission

Exploration of a non-humanities-based global topic selected by department. Global events, current or historical information, and geographical knowledge will be included.

**HEALTH INFORMATION MANAGEMENT - HIM****HIM 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.

**HIM 115 Pharmacology (3)**

Emphasis on commonly prescribed drugs by body system including route of administration, drug form and government regulations.

**HIM 120 Health Care Data (3)**

**Prerequisites:** Acceptance into the HIM Program and CPT/BTC 103 and ENG 101

**Corequisites:** HIM 121

Introduction to health information management including health care delivery systems; health information management profession; health care data, collection, quality, access and retention.

**HIM 121 Health Care Data Laboratory (0)**

**Corequisites:** HIM 120

Case studies, projects and hands on activities to reinforce concepts from HIM 120.

**HIM 125 Health Care Technologies (3)**

**Prerequisites:** HIM 120 and HIM 121

**Corequisites:** HIM 126

Continuation of HIM 120 with emphasis on indexes and registries, computer-based patient record, and health information systems.

**HIM 126 Health Care Technology Laboratory (0)**

**Prerequisites:** HIM 120 and HIM 121

**Corequisites:** HIM 125

Special projects, guest speakers, and field trips to reinforce principles taught in Health Care Technologies lecture.

**HIM 140 Anatomy & Physiology for Allied Health (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, nursing or OTA majors.

**HIM 150 Directed Practicum (1)**

**Prerequisites:** HIM 120 and HIM 121

**Corequisites:** HIM 125 and HIM 126

Introduction to medical records department in variety of hospitals and alternative settings.

**HIM 220 ICD Coding (3)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 221 and HIM 141

Study of classification systems with major emphasis on inpatient coding using ICD-10-CM, ICD 10 PCS and reimbursement methodologies, specifically DRGs.

**HIM 221 ICD Coding Laboratory (0)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 220 and HIM 141

Special projects to reinforce principles taught in ICD Coding lecture.

**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.

**HIM 238 Healthcare Legal & Ethical Issues (3)**

A history of ethics with a focus on legal and ethical issues in the health care field including 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 ethical/legal issues.

**HIM 241 Health Care Statistics (3)**

**Prerequisites:** HIM 120, HIM 121, HIM 125, HIM 126 and must assess into MAT 121 or have earned a C or better in MAT 098

In-depth study of hospital statistics, sources, definitions, collection and reporting of data.

**HIM 242 Health Care Management (3)**

**Prerequisites:** HIM 120/121 and HIM 125/126

Principles of organization and strategic planning including workforce decisions, finance and budgeting, leadership techniques and team building to identify and manage process improvement.

**HIM 243 Quality Management and Performance Improvement (3)**

**Prerequisites:** HIM 120/121 and HIM 125/126

A basic overview of quality performance improvement processes, function, applications,

and utilization review.

**HIM 250 Applied Practicum (3)**

**Prerequisites:** HIM 150

Advanced student practice emphasizing targeted skill sets and building skills applied in a specific health care setting. Program capstone experiences included.

**HIM 251 Medical Billing/ Coding Clinical (2)**

**Prerequisites:** This course must be taken in the final semester of the HIM program and with HIM Director approval.

Supervised learning experience in a health care facility and/or virtual lab setting enabling the student to apply skills in basic billing and coding procedures and practices. Emphasis is on students achieving entry-level proficiency in billing and coding medical records and physicians office diagnoses and procedures, and the application of policies, standards and guidelines.

**HIM 252 Certified Coding Associate (CCA) Exam Review (2)**

**Prerequisites:** This course must be taken in the final semester of the HIM program and with HIM Director approval.

Review of the coding competencies and skills in preparation of a coding certification exam.

**HIM 260 Health Information Management Seminar (2)**

**Prerequisites:** This course must be taken in the final semester of the HIM program and with HIM Director approval.

Offers a comprehensive program review, job search techniques, in-depth preparation for RHIT Exam, test taking skills and exam registration. This course must be taken in the final semester of the HIM program and with HIM Director approval.

**HIM 270 CPT Coding (3)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 141 and HIM 271

Outpatient coding guidelines and reimbursement with major emphasis on CPT coding.

**HIM 271 CPT Coding Laboratory (0)**

**Prerequisites:** HIM 140

**Corequisites:** HIM 141 and HIM 270

Application of outpatient coding guidelines and reimbursement with major emphasis on CPT coding, to reinforce principles taught in lecture component, HIM 270.

**HIM 280 Healthcare Billing and Reimbursement Issues (2)**

**Prerequisites:** HIM 120, HIM 121, HIM 125 and HIM 126

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.

**HIM 290 Advanced Coding (3)**

**Prerequisites:** HIM 220 and HIM 221

**Corequisites:** HIM 291, HIM 270 and HIM 271

This course is a continuation of HIM 220/221, focusing on assigning diagnosis and procedural codes from actual patient scenarios and determining the validity of CAC assigned codes.

**HIM 291 Advanced Coding Laboratory (0)**

**Prerequisites:** HIM 220 and HIM 221

**Corequisites:** HIM 290, HIM 270 and HIM 271

Application of coding guidelines with major emphasis on actual case scenarios, to reinforce principles and cases from HIM 290.

**HISTORY - HIS****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.

**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.

**HIS 103 African-American History to 1877 (3)**

A survey of African American History from African and colonial origins to the Civil War and Reconstruction. Examines U.S. history from the perspective of African Americans, highlighting black leadership, contributions to U.S. society and culture, and places the African-American narrative in context of the larger U.S. history.

**HIS 104 African-American History Since 1877 (3)**

A survey of African-American history from the Civil War and Reconstruction to the present. Examines U.S. history from the perspective of African Americans, highlighting black leadership, contributions to U.S. society and culture, and places the African-American narrative in context of the larger U.S. history.

**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.

**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.

**HIS 146 Western Civilization: Modern European Heritage (3)**

Beginning with Renaissance, survey of history of Western civilization through post-WWII period.

**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 204 Non-Western Civilization to 1500 (3)**

Introductory-level survey of the Middle East, India, China and the Pacific Rim from their beginnings to 1500 C.E.

**HIS 205 Non-Western Civilization Since 1500 (3)**

Introductory-level survey of the Middle East, India, China and the Pacific Rim from 1500 C.E. to the present.

**HIS 210 History of Latin America (3)**

Survey of the political, economic and cultural forces and events that have shaped the history of Central and South America: emphasis will be placed on Mexico, Brazil, Argentina and Chile.

**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.

**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.

**HIS 296 History Internship (3)**

**Prerequisites:** HIS 101 or HIS 102 and department chair permission

Students placed in participatory position in a government agency, museum/archives, or community organization. Requires research paper relating to some aspect of the internship.

**HIS 299 Topics in History (3)**

**Prerequisites:** Instructor permission

Exploration of topic selected by the department. Introduction to historical research techniques and seminar approach as integral part of scholarship.

**HONORS - HON****HON 100 Inquiries in Composition and History (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

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.

**HON 101 Inquiries in English and History (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

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 299 course. Topics will vary.

**HON 102 Inquires in Psychology and Political Science (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

An introductory overview of the intersection of psychology and political science. It is an examination of behavioral, cognitive, psychoanalytic, humanistic and biological viewpoints in psychology. The course includes learning principles and applications, motivation, emotions, stress, psychobiology, personality, abnormal behavior and approaches to therapy as well as the workings of the federal, state, and local governments in the United States. This course will also give students a broad overview of the issues that underlie our political system, as well as how citizens and government interact with one another.

**HON 103 Inquiries in Political Science and Communications (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

Interdisciplinary Honors course dealing with topics in political science and communications. Explore connections between the disciplines of political science and communications. Topics will vary. Student can count this as credit for COM 102 or POL 299.

**HON 104 Inquiries in Literature, Composition and Anthropology (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

Interdisciplinary Honors course dealing with topics in literature and anthropology. Students will explore connections between the disciplines of literature, composition and anthropology. Topics will vary. Students can use the course to meet the requirement of LIT 200, ENG 102 or ANT 181.

**HON 105 Inquiries in Philosophy and Math (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

Interdisciplinary honors course dealing with topics in philosophy and math. Exploration of the connections between the disciplines of philosophy and math. Topics will vary.

**HON 106 Biology and Psychopharmacology (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

Overview of the intersection of biology and psychopharmacology. Emphasis will be on issues related to the use of specific psychoactive drugs in human culture. Students will become more informed about the bio-psychological factors that underlie drug use and abuse. Course will include a survey of human body structure and function for the non-science major while meeting the requirements of BIO 110 (Human Biology) for students pursuing an Associates of Arts degree.

**HON 107 Inquiries in Composition and Sociology (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

Explore connections between the disciplines of composition and sociology while meeting the requirements and objectives of an English 102 or Sociology 101 course. Topics will vary.

**HON 108 Inquiries in Literature and Philosophy (3)**

**Prerequisites:** Admission to the Honors Program required. If interested, contact the Honors Program Chair at honors@stchas.edu or 636.922.8506.

Interdisciplinary Honors course dealing with topics in literature and philosophy. Students will explore connections between the disciplines of literature and philosophy. Topics will vary.

**HUMAN SERVICES - HMS****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.

**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.

**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.

**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.

**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.

**HMS 106 Introduction to Youth Services Management (3)**

Introduction to a wide variety of available youth services including, but not limited to Outpatient, Intensive Outpatient, and Residential levels of care. 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. Includes topics of Ethics, Assessment and Treatment Planning, Family Systems and Case Management, suffering from alcohol and drug abuse.

**HMS 151 Gerontology (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.

**HMS 195 Human Services: Professional Field Skills (3)**

Builds on theories presented in core HMS classes. Professional skill sets, such as case management, and informational/motivational/interviewings will be emphasized, allowing students to refine these skills prior to enrolling in practicum courses. Students will participate in evaluative efforts to measure preparedness to work as human services.

**HMS 201 Human Services Practicum I (3)**

**Prerequisites:** HMS 100 and HMS 101

**Corequisites:** HMS 203

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.

**HMS 202 Human Services Practicum II (3)**

**Prerequisites:** HMS 201 and HMS 203

**Corequisites:** HMS 204

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.

**HMS 203 Human Services Practicum Seminar I (3)**

**Prerequisites:** HMS 100 and HMS 101

**Corequisites:** HMS 201

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.

**HMS 204 Human Services Practicum Seminar II (3)**

**Prerequisites:** HMS 201 and HMS 203

**Corequisites:** HMS 202

Continuation of HMS 203 with different learning objectives. Related to work student will do after completion of programs.

**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.

**HMS 230 Crisis Intervention (3)**

Introduction to theories and practices related to intervening and mediating in and defusing crisis, and referral of people in crisis.

**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.

**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.

**INFORMATION TECHNOLOGY - IT****IT 100 IT Technical Support (A+) (3)**

Preparation to meet the requirements of the CompTIA A+ certification exam. How to build, configure, upgrade and troubleshoot PCs and mobile devices.

**IT 110 Windows Desktop Operating Systems (3)**

An introduction to Linux operating systems. This is the first of two classes required to prepare for the Red Hat Certified System Administrator (RHCSA) certification (IT 130 & IT 230). Uses Red Hat Academy curricula.

**IT 140 Programming for System Administrators (3)**

Introduction to modern programming and scripting languages with an orientation towards system administrators.

**IT 151 CCNA1 (4)**

First Cisco Networking Academy course in a four-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification. IT 151 and IT 152 together prepare the student for the Cisco Certified Entry Networking Technician (CCENT) exam. Learn networking fundamentals along with router and switch configuration.

**IT 152 CCNA2 (4)**

**Prerequisites:** IT 151

Second Cisco Networking Academy course in a four-course sequence that prepares student for Cisco Certified Network Administrator (CCNA) certification. IT 151 and IT 152 together prepare the student for the Cisco Certified Entry Networking Technician (CCENT) exam. Learn networking fundamentals along with router and switch configuration.

**IT 153 CCNA3 (4)**

**Prerequisites:** IT 152 or CCENT certification

Third Cisco Networking Academy course in a four-course sequence. After preparing for CCENT certification, continue with IT 153 and IT 154 to prepare for the next level of certification – Cisco Certified Network Administrator (CCNA Routing & Switching).

**IT 154 CCNA4 (4)**

**Prerequisites:** IT 153

Fourth Cisco Networking Academy course in a four-course sequence. After preparing for CCENT certification, continue with IT 153 and IT 154 to prepare for the next level of certification – Cisco Certified Network Administrator (CCNA Routing & Switching).

**IT 160 Virtualization Technologies (3)**

**Prerequisites:** IT 151 and IT 130 or instructor permission

**Corequisites:** IT 210

Introduction to virtualization technologies used in current corporate environments. Heavy emphasis on VMware. Includes VMware IT Academy curricula.

**IT 170 Security Fundamentals (3)**

Preparation to meet the requirements of entry level security certifications. Learn the fundamentals of workstation, server, and network security and protection of assets.

**IT 171 Ethical Hacking (3)**

**Prerequisites:** IT 170

Preparation to meet the requirements of ethical hacking certifications. Learn how a hacker penetrates a system or network so that you may better protect your company assets.

**IT 172 Digital Forensics (3)**

**Prerequisites:** IT 170

Preparation to meet the requirements of digital forensics certifications. Learn investigative techniques to identify, collect, examine, and preserve digital evidence.

**IT 210 Windows Server and Active Directory (3)**

**Prerequisites:** IT 110

Preparation to meet the requirements of Microsoft certifications in Windows server operating systems. In-depth study of the latest Windows Server operating systems.

**IT 230 Linux Administration (3)**

**Prerequisites:** IT 130

An introduction to Linux administration. This is the second of two classes required to prepare for the Red Hat Certified System Administrator (RHCSA) certification (IT 130 & IT 230). This class also prepares the student for Red Hat Certified Engineer (RHCE) certification. Uses Red Hat Academy curricula.

**IT 251 CCNP1 (4)**

**Prerequisites:** IT 154 or CCNA R&S certification

A Cisco Networking Academy course in a series that prepares the student for Cisco Certified Network Professional (CCNP) certification. Student should already have CCNA Routing & Switching skills. This course may be taken along with or before IT 252 - CCNP2. This course focuses on advanced routing skills.

**IT 252 CCNP2 (4)**

**Prerequisites:** IT 154 or CCNA R&S certification

A Cisco Networking Academy course in a series that prepares the student for Cisco Certified Network Professional (CCNP) certification. Student should already have CCNA Routing & Switching skills. This course may be taken along with or before IT 251 – CCNP1. This course focuses on advanced routing skills.

**IT 253 CCNP3 (4)**

**Prerequisites:** IT 154 or CCNA R&S certification

A Cisco Networking Academy course in a series that prepares the student for Cisco Certified Network Professional (CCNP) certification. Student should already have CCNA Routing & Switching skills. This course should be taken after IT 251 and IT 252. This course focuses on troubleshooting skills.

**IT 254 CCNP4 (4)**

**Prerequisites:** CPC 154 or CCNA R&S certification

A Cisco Networking Academy course in a series that prepares the student for Cisco Certified Network Professional (CCNP) certification. Student should already have CCNA Routing & Switching skills. This course, if needed for certification, should be taken after IT 251 and IT 252.

**IT 255 Wireless LANs (5)**

**Prerequisites:** IT 152 or CCENT certification.

Introduction to Wireless LANs. Learn about wireless technologies, how to set up, maintain and secure a wireless network.

**IT 270 CCNA Security (4)**

**Prerequisites:** IT 152 or CCENT certification

Preparation for the CCNA Security certification. Cisco Networking Academy course with a focus on how to defend your network, workstations, servers, and other assets.

**IT 271 Penetration Testing (3)**

**Prerequisites:** IT 171 or instructor permission

Preparation for penetration testing. Learn how to use ethical hacking skills to conduct a penetration test that will help a company discover and address weaknesses that a hacker may exploit.

**IT 275 CISSP (3)**

**Prerequisites:** IT 170 or instructor permission

Preparation for the Certified Information Systems Security Professional (CISSP) certification.

**IT 299 Topics in Information Technology (3)**

Advanced IT topics that may vary from semester to semester. Focus on important information technology skills sets like cloud computing.

## INTENSIVE ENGLISH - INE

**INE 100 Intensive English: Emerging Skills in Reading, Writing, Speaking and Listening (9)**

**Prerequisites:** Placement by ESL Department Chair

**Corequisites:** ESL 115 and/or ESL 100 (if 1st semester at SCC)

Focus is on helping students in the beginning levels of language improve receptive and productive language skills and build vocabulary in preparation for more academically demanding second-level INE courses. Emphasis on conversational and survival skills needed to function in new environment. Also includes written and oral sentence construction, pronunciation, cultural basics, reading comprehension and linguistically appropriate content. A grade of C or better is needed to move into the next courses, INE 101 and INE 102.

**INE 101 Intensive English: Reading and Writing (3)**

**Prerequisites:** INE 100 with a grade of C or better, TOEFL score of over 50 or placement by ESL Department Chair

**Corequisites:** INE 102 and ESL 115, plus INE 199 (unless waived by ESL Department Chair)

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.

**INE 102 Intensive English: Listening and Speaking for NNS (3)**

**Prerequisites:** INE 100 with a grade of C or better, a TOEFL score of over 50 or placement by ESL Department Chair

**Corequisites:** INE 101 and ESL 115 and INE 199 (unless waived by ESL Department Chair)

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.

**INE 111 Emerging Vocabulary I for Non-Native Speakers (1)**

**Corequisites:** INE 101, INE 102 and INE 109 (recommended but not required)

Basic class to immerse students in vocabulary appropriate level of Intensive English. Also focuses on use of vocabulary in conversation and writing. Word recognition and spelling will be addressed. Note: This class will begin to focus on vocabulary that may arise in academic settings, but will also include words from everyday life to increase students' tools for operating in American society. To take this course student must place into Intensive English or ESL classes.

**INE 112 Emerging Vocabulary II for Non-Native Speakers (1)**

**Corequisites:** INE 101, INE 102, and INE 199 (recommended but not required)

Students will be immersed in vocabulary appropriate to their level of Intensive English. Also focuses on use of vocabulary in conversation and writing. Word recognition and spelling will be addressed. Note: This class will begin to focus on vocabulary that may arise in academic settings, but also includes words from everyday life to increase students' tools for operating in American society. Increase emphasis on word connotations, vocabulary expansion with word trees, grammatical forms and collocations. Placement into Intensive English or ESL classes and INE 111 or testing out of this class required.

**INE 190 Intensive English Practicum (1-3)**

**Prerequisites:** Placement by ESL Chair and INE 100 with a grade of C or better

An immersive experience for students to demonstrate general competency with the

English language as well as improve both receptive and productive language skills outside the academic environment. Course will require reflection through journals and discussions on content learned, and the professor must verify the students' attendance and participation in the setting where the students are placed. The student experience could include volunteer opportunities/exchanges on campus, in the community, or abroad where World English is practiced. Additional language skills acquired outside the classroom will include idioms, conversational skills, cultural competence, and increased vocabulary (even in World English), with expectations consistent with the intermediate level (beginning Academic ESL). A grade of C is passing, but a B or better is required for this experience to count toward the certificate. Course could be offered with a service learning option.

**INE 199 Phonics and Fluency (2)**

**Prerequisites:** Placement by ESL or Reading Chair

**Corequisites:** ESL 101 and ESL 102 unless waived by ESL or Reading Chair

Focus will be on improving pronunciation and fluency, especially when reading aloud. Activities include spelling and phonics instruction as well as speaking and reading exercises designed to increase reader's fluency and natural voice when reading. A grade of C or better is needed to move into the next ESL class, ESL 104. Emphasis will be on speaking although writing will be part of the class curriculum as well.

## KINESIOLOGY - PHE

**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.

**PHE 110 Fitness Center I (1)**

Provides guided instruction through a self-paced format of exercising in the college's fitness center. Students work independently with an instructor and learn how to properly

perform exercises using cardio and resistance training exercises. With guidance, students evaluate health and fitness variables, establish fitness goals, and develop lifelong exercise habits.

**PHE 111 Fitness Center II (1)**

Provides additional guided instruction through a self-paced format of exercising in the college's fitness center for students with current basic exercise knowledge. Students work independently with an instructor and learn how to properly perform more advanced exercises using free-weights, cardio and resistance training exercises. Students will assess health and fitness variables to modify established fitness goals, and develop lifelong exercise habits.

**PHE 112 Weight Training I (1)**

Basic instruction in weight training. Emphasizes weight training orientation, correct lifting techniques, and basic program design for resistance training.

**PHE 113 Weight Training II (1)**

More advanced instruction in weight training occurs. Free-weights and selected multi-joint exercises will be employed focusing on total body development. Emphasizes free-weight training orientation, correct lifting techniques, and program design for more advanced resistance training. Recommended that students have prior experience in weight training.

**PHE 115 Boot Camp (1)**

High-intense interval type training is the primary focus incorporating exercises that target the cardio-respiratory and muscular systems. Both upper and lower body exercises are combined with aerobic activities to promote fitness.

**PHE 116 Cardio Kickboxing I (1)**

Fundamental kickboxing and martial arts movements are practiced to improve aerobic and muscular endurance, strength, and flexibility. This course provides moderate to vigorous intense activity.

**PHE 118 Step and Body Sculpting (1)**

A combination of hand-weights, tubing, bars, and steps to provide an aerobic workout with

muscle shaping exercises as a primary focus. Provides basic exercise instruction, workouts, and principles to body sculpting programs.

**PHE 119 Stretch and Strengthen (1)**

Stretching and strengthening exercises from the dance world appropriate for dancers and sport enthusiasts.

**PHE 120 Aerobics I (1)**

Aerobic exercise choreographed to music to develop cardio and muscle endurance through basic leg and arm patterns of motion. Flexibility and core training are included.

**PHE 121 Aerobics II (1)**

Continuation of PHE 120. Challenge will include more complicated patterns and higher intensity work level. Written component may be required.

**PHE 122 Step Aerobics (1)**

Basic step aerobics and exercise techniques to improve physical fitness performed on an elevated stepping platform. Emphasizes the basic principles of step aerobics including the effects upon the cardio-respiratory system and skeletal muscles, various step patterns and choreography.

**PHE 123 Cardio and Core (1)**

Techniques and exercises from Yoga and Pilates are integrated with aerobic fitness to strengthen the cardiovascular system, and the core muscle stabilizers. Various exercise tools and techniques will be employed to provide multiple choices for cardio and core muscle development.

**PHE 124 Circuit Training (1)**

Circuit training programs utilizing aerobic and muscle endurance activities are practiced. Emphasizes the development of cardiovascular endurance, muscular strength and endurance, flexibility and a healthy body composition to meet individual needs.

**PHE 125 Fitness Walking (1)**

Brisk paced walking is used as the primary mode of exercise to develop aerobic and muscular endurance health-related fitness. Other aspects of health and fitness may also be employed. Walking may occur indoors and/or outdoors dependent of weather conditions.

**PHE 130 Yoga (1)**

Basic principles and movements of Hatha Yoga will be engaged. Breathing and meditation techniques will also be integrated into a complete yoga experience of body/mind/spirit to improve health and fitness.

**PHE 132 Pilates (1)**

Instruction and practice of principles and concepts of Pilates. Emphasis will be on breathing patterns, postural positions, and flexibility focusing on the core muscles of the torso and hips. A variety of exercise tools will be utilized to assist students Pilates' program progression.

**PHE 134 Self-Defense I (1)**

Introduces basic skills and techniques of the art of self-defense in response to dangerous situations. Focuses on being mentally prepared and to be able to cope emotionally with acts of violence. Physical and flexibility conditioning are part of this course.

**PHE 135 Self-Defense II (1)**

Advanced situational responses building on the fundamental skills of self-defense. Advanced techniques and simulations will be employed to further develop skills and responses to personal safety.

**PHE 136 Martial Arts - Tae Kwon Do I (1)**

Fundamental skills and techniques of a form martial arts to develop discipline and self-defense. Gain an understanding of the basic philosophies and concepts around the martial arts and the approach to ethics. Provides a clear-cut guide for developing a powerful sense of character and will.

**PHE 137 Martial Arts - Tae Kwon Do II (1)**

**Prerequisites:** PHE 136

Intermediate skills in an empty-hand form of self-defense using all parts of the body in various blocking, kicking, punching, and striking against one or more assailants. Initial skills test will determine the level of assigned kicks and patterns to be learned. Sparring and self-defense techniques will be employed.

**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.

**PHE 141 Ballet Conditioning (1)**

Introduces basic ballet techniques, fundamental exercises, and basic elements of dance. Focus is on body alignment, barre warm-up exercises, basic extended positions, and various ballet conditioning exercises.

**PHE 142 Zumba (1)**

Provides a compilation of high energy, motivating music with unique moves and choreography combinations. Zumba fuses Latin and International music and dance themes to create a dynamic, exciting, effective fitness system.

**PHE 144 Modern Dance I (1)**

Provides a foundation and builds basic skills of modern dance; movements and techniques.

**PHE 145 Modern Dance II (1)**

**Prerequisites:** PHE 144 or instructor permission

Applies more advanced principles and techniques of modern dance to performance movement and various modern dance forms.

**PHE 146 Jazz Dance I (1)**

Jazz techniques designed to give a firm grasp of basic movement, musicality, and strength.

**PHE 147 Jazz Dance II (1)**

**Prerequisites:** PHE 146 or instructor permission

Techniques and movements to further develop and facilitate performance ability in jazz dance.

**PHE 148 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.

**PHE 150 Basketball (1)**

Fundamental rules, skills, plays, and strategy of basketball are engaged.

**PHE 151 Volleyball (1)**

Fundamental volleyball skills, rules, and strategy are engaged. Emphasis is on serving, passing, setting, attacking, and offensive and defensive play and strategies.

**PHE 152 Tennis (1)**

Emphasizes elements of tennis including the rules of the game, groundstrokes, serving, the various shots, and singles and doubles play and strategies.

**PHE 153 Golf (1)**

Safety, rules, course etiquette, grip, stance, and swing. Time spent on practice putting green, driving range, and in actual play.

**PHE 154 Disc Golf (1)**

The rules, throwing techniques, disc selection, and play conducted on disc golf course(s).

**PHE 155 Racquetball (1)**

Game played on indoor court using racquet and hard rubber ball. Eye protection recommended.

**PHE 156 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.

**PHE 160 Hiking (1)**

Provides opportunities to learn skills related to hiking and wilderness travel. Emphasizes hiking skills, proper conditioning, route finding and travel, clothing, gear, and equipment, hiking hazards and ethics. The course involves weekend hikes on nearby established trails.

**PHE 162 Indoor Rock Climbing (1)**

Basic rock climbing techniques are taught utilizing an indoor artificial climbing wall. Basic climbing knots, terminology and etiquette, equipment, and safety are emphasized.

**PHE 163 Indoor Rock Climbing II (1)**

**Prerequisites:** PHE 162

Beyond the basics, the course focus is on more advanced forms rock climbing techniques utilizing an indoor artificial climbing wall. Climbing knots, terminology and etiquette, equipment, and safety are emphasized.

**PHE 164 Scuba (1)**

Provides basic instruction in scuba diving. Focuses on the knowledge and skills related to swimming and snorkeling, diving equipment, communications, the environment, safety, dive tables, and other pertinent information a student needs for safe scuba diving. Course prepares the student for open-water (PADI) certification.

**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.

**PHE 208 Outdoor Recreation and Leadership (3)**

An introduction to the field of outdoor recreation and leadership. Identifies the value, meaning and benefits of outdoor recreation experiences, and explores a variety of 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.

**PHE 210 First Aid/Safety (2)**

Prepares students to respond to emergencies. Covers skills in basic life support, airway obstruction, control bleeding, shock management, splinting, and providing care to responsive and unresponsive individual. CPR, AED and First Aid certification is awarded if the student successfully passes the written exams and practical skills.

**PHE 215 Personal Wellness (2)**

Focus is on developing positive lifestyles by integrating the concepts of wellness and fitness to gain a comprehensive understanding

of personal wellness. Students will evaluate needs and develop an action plan of personal wellness. Course combines lecture and physical activity.

**PHE 220 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.

**PHE 225 Concepts: Drugs (2)**

Provides an overview of drugs and their issues in America. Examines the effects of various drugs such as; over-the-counter, prescription, illicit drugs, and others in various forms and the effects on the human body. Will also provide an insight into drug abuse and prevention efforts employed.

**PHE 230 Concepts: Health (3)**

Provides an overview of health and wellness issues related to individual and community health. Topics include: physical, psychological, emotional, spiritual, social, and environmental well-being; personal nutrition and weight management; stress management; and healthy and unhealthy lifestyle choices and actions.

**PHE 240 Nutrition for Weight Management (3)**

Nutrition and weight management principles to gain an understanding of the role they play in a healthy lifestyle. Topics include: weight management overview, assessment of factors associated with nutrition and weight management, eating disorders and behavior modification, energy metabolism, physical activity and dietary approaches to weight management.

**PHE 245 Nutrition for Sports Performance (3)**

Nutrition concepts and components are the focus as they relate to physical activity, sport performance, and the athlete. The course integrates nutrition and exercise science into one format that provides sound and practical sport nutrition and performance principles and guidelines.

**PHE 250 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.

**PHE 255 History and Philosophy of Physical Education and Sport (3)**

History and philosophy of physical education and sport from ancient civilization to the 21st century. Explores changing thought regarding the physical body and the development of physical education.

**PHE 260 Kinesiology (3)**

**Prerequisites:** BIO 250A/250B with a grade of C or better 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. Prerequisites must be taken within the last 5 years.

**PHE 265 Foundations of Sport Management (3)**

Introduction to the field of sport management. The areas of study include principles and functions, leadership issues, sport policy and governance, sport law and ethics, facility management, sport marketing, economics, finance, event management, and career opportunities in sport management.

**PHE 270 Sociological Aspects of Sport (3)**

Introduction to the relationships between sports, values, culture, and society. Identify and explore issues related to sports from personal experiences, academic settings, communities, and societies. Guided by sociological research and theory, an understanding of sports take into account the social and cultural contexts in which sports are created, played, given meaning, and integrated into people's lives.

**PHE 275 Sport and Exercise Psychology (3)**

An overview of sport and exercise psychology that bridges the gap between research and practice. Focus is on the fundamental principles of professional practice to provide an understanding of psychological issues affecting performance and how to use or apply sport and exercise psychology knowledge to various situational aspects.

**PHE 280 Women's Fast-Pitch Varsity Softball (1)**

**Prerequisites:** Instructor permission

Enrollment limited to members of varsity team.

**PHE 282 Women's Fast Pitch Varsity Softball II (1)**

**Prerequisites:** PHE 280 and instructor permission

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.

**PHE 283 Women's Varsity Soccer (1)**

**Prerequisites:** Instructor permission

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:** PHE 283 and instructor permission

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.

**PHE 290 Men's Varsity Baseball (1)**

**Prerequisites:** Instructor permission

Enrollment limited to members of varsity team.

**PHE 292 Men's Varsity Baseball II (1)****Prerequisites:** PHE 290 and instructor permission

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.

**PHE 293 Men's Varsity Soccer (1)****Prerequisites:** Instructor permission

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:** PHE 293 and instructor permission

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.

**LITERATURE - LIT****LIT 200 World Mythology (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Survey of central myths of Greece, Middle East, Africa, India, Native America, and China. Emphasis on how myths have shaped various cultures.

**LIT 201 Mythology in Western Culture (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

This class focuses on the pervading influence of Western mythological traditions in literature and culture.

**LIT 205 Introduction to Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

An introductory survey of major literary works, with special attention given to terminology and critical analysis.

**LIT 207 Introduction to the Bible as Literature - The Old Testament: Genesis through Malachi (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 210 American Literature From 1620-1865 (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 215 Introduction to Poetry (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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 or ENG 102 with a passing grade or assess into ENG 102

Introductory course in dramatic literature stressing the influences of the past upon modern theatre, the commonality and differences between theatrical and filmed drama, and the process on how the written script becomes a live or filmed production.

**LIT 218 Literature about Place (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

With increasing mobility and blending of cultures, ideas about place and setting are even more crucial to identity than in the past.

**LIT 220 American Literature From 1865-present (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 221 The American Dream and the 20th Century (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 222 Native American Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

A multi-disciplined study of the contribution of non-Europeans upon the national culture.

**LIT 223 African American Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Survey of African-American literature from colonial America to present day United States. Includes slave narratives, essays speeches, music, poetry, short fiction, novels and drama/ film, as well as a focus on their historical contexts.

**LIT 230 Contemporary Fiction (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 236 Science Fiction (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 237 Detective Fiction (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 238 Horror Fiction (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 239 Humor in Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Explores humor in various media, including written sketches, short stories, novels, film by various writers, and the evolution of the humor genre, as well as the value it holds both historically and presently.

**LIT 240 Contemporary Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 241 Sociology Through Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102 and SOC 101

Application of sociological concepts to literature to analyze socio-historical events.

**LIT 242 Post Colonial Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 250 English Literature Before 1800 (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 252 Introduction to Shakespeare (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Introductory course of Shakespeare's insights into human behavior, the conflict inherent within societies, and his use of language.

**LIT 260 English Literature After 1800 (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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 or ENG 102 with a passing grade or assess into ENG 102

Focuses on a broad reading of novels, films, stories, and poems in the Gothic literary

sensitivity. Unlike horror fiction, which focuses on grisly detail, Gothic is primarily concerned with fear of the unknown and resulting paranoia.

**LIT 265 Fiction to Film (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 267 Film as Literature (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 271 Literature and Contemporary Cultures (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Introduction to prose, poetry, drama, and film from around the globe by authors from 1900 to Present.

**LIT 272 World Literature - Ancient World Through the Renaissance (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Survey course in the foundations of world literary traditions from pre-Classical and Classical World through Middle Ages and Renaissance.

**LIT 273 World Literature - Enlightenment to 20th Century (3)****Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Survey course in the foundations of world literary traditions from the European Enlightenment through the 20th century.



**LIT 274 Evolution of the Tragedy: Tragic Heroes and Heroines (3)**

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Overview of the evolution of dramatic tragedy from Greek to Modern theatre.

**LIT 275 Holocaust Literature (3)**

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 280 Gender Issues in Literature (3)**

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

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.

**LIT 289 Writing about Literature (3)**

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

This course focuses on different ways of reading literature, using various theoretical lenses. Read the words of literary theorists and then apply their analysis along to novels, poems, short stories, drama, and films.

**LIT 299 Topics in Literature (3)**

**Prerequisites:** ENG 101 or ENG 102 with a passing grade or assess into ENG 102

Variety of special literature studies offered.

## LOGISTICS - LGM

**LGM 101 Logistics and Supply Chain I (3)**

Foundational knowledge needed to understand the world of supply chain logistics and related core competencies including: safety, quality control, communications, teamwork, good

workplace conduct, and familiarity with computer systems that support supply chain operations.

**LGM 210 Logistics and Supply Chain II (3)**

**Prerequisites:** LGM 101

Emphasis on mid-level technical knowledge needed to understand the world of supply chain logistics and related core competencies. Includes product receiving, product storage, order processing, packaging, shipment, inventory control, safe handling of hazardous materials, evaluation of transportation modes, custom, and dispatch and tracking operations. Certified Logistics Associate (LGM 101) (MSSC) is a prerequisite to taking this course. Prepares students for MSSC/CLT. Includes a required certified exam upon class completion.

## MANUFACTURING - MFG

**MFG 101 Principles of Safety (3)**

Introduction to the manufacturing world including specific instruction to facilitate safe work practices in industrial environment.

**MFG 105 Employment Strategies (1)**

**Prerequisites:** MFG 101

Provides knowledge and skills related to effective quality processes and practices used in today's manufacturing industry. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Quality module certification test for an additional fee.

**MFG 141 Principles of Green Production (3)**

Introduction to the sustainability principles of "green" production, defined as workplace activities across all industries within the manufacturing sector that require the use of equipment, technologies, and processes to improve the environmental performance of manufacturing companies.

**MFG 201 Principles of Manufacturing Processes and Production (3)**

**Prerequisites:** MFG 101 and MFG 111

Provides a broad understanding of manufacturing sub-industries and their related products, processes, challenges and best practices. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Quality module certification test for an additional fee.

**MFG 205 Manufacturing Process Controls (3)**

Provides students with current practices associated with production planning, production scheduling, and controlling production.

**MFG 215 Problem Solving Tactics in Manufacturing (3)**

Training in problem solving is emphasized as well as how to establish a culture of continuous improvement in a proactive environment.

**MFG 220 Principles of Maintenance Awareness (3)**

**Prerequisites:** MFG 111 and MFG 201

Provides insights into basics of good maintenance practices through an understanding of electrical, mechanical and fluid power systems. Students will have an opportunity to sit for the Manufacturing Skills Standards Council Quality module certification test for an additional fee.

**MFG 225 Supervisor Skills (3)**

Foundational training for leaders at all levels including how to solve problems, set goals, and manage the conflict within an organization using hands-on, interactive concepts.

**MFG 230 Manufacturing Measurement (3)**

Emphasis on use of instrumentation and process control. Concepts and measurement of physical variables and brief descriptions of individual process and combination of processes used in industry, such as go/no go, plug gauges, flatness, and coordinate measuring machine (CMM), control plans, and fixtures will be covered. Theory of operation and application of associated process instruments included.

## MATH - MAT

**MAT 055 Supplement to Contemporary College Math (2)**

**Prerequisites:** Placement into MAT 155 or placement into MAT 155 corequisite model

**Corequisites:** MAT 155

Coursework provides a supplement that reinforces prerequisite concepts and skills necessary for success in MAT 155. This course does not count toward graduation. This course does not count toward graduation.

**MAT 056 Supplement to College Algebra - Educators (2)**

**Prerequisites:** Placement into MAT 156 or placement into MAT 156 corequisite model

**Corequisites:** MAT 156

Coursework provides a supplement that reinforces prerequisite concepts and skills necessary for success in MAT 156. This course does not count toward graduation.

**MAT 057 Supplement to College Statistics - General Education (2)**

**Prerequisites:** Placement into MAT 157 or placement into MAT 157 corequisite model

**Corequisites:** MAT 157

Coursework provides a supplement that reinforces prerequisite concepts and skills necessary for success in MAT 157. This course does not count toward graduation.

**MAT 058 Supplement to College Algebra - General Education (2)**

**Prerequisites:** Placement into MAT 158 or placement into MAT 158 corequisite model

**Corequisites:** MAT 158

Provides a supplement, which will reinforce prerequisite concepts and skills necessary for success in Math 158. This course does not count toward graduation.

**MAT 062 Supplement to College Algebra - STEM (2)**

**Prerequisites:** Placement into MAT 162

**Corequisites:** MAT 162

Provides a supplement, which will reinforce prerequisite concepts and skills necessary for success in Math 162. This course does not count toward graduation.

**MAT 096 Pre-Algebra (4)**

**Prerequisites:** Placement into 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. This course does not count toward graduation.

**MAT 098 Beginning Algebra (4)**

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into 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. This course counts toward completion of a certificate only.

**MAT 105 Applied Math (3)**

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into 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.

**MAT 108 Understanding K-8 Mathematics (3)**

**Prerequisites:** MAT 096 with a grade of P (pass) or placement into MAT 098

Basic concepts of the K-8 math curriculum. Concepts experienced through multiple representations: numerically, algebraically, geometrically and verbally.

**MAT 121 Intermediate Algebra (4)**

**Prerequisites:** MAT 098 or MAT 098C with a grade of C or better or placement into 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.

**MAT 147 Statistics - Allied Health (4)**

**Prerequisites:** MAT 098 or MAT 098C with a grade of B better or placement into MAT 121

Topics include graphs, qualitative and quantitative data, descriptive statistics, percentiles, counting techniques, probability, probability distributions, expected value, confidence interval estimates, hypothesis testing, simple linear regression, one-way ANOVA, and interpretation of statistical outcomes. This course is designed for OTA students.

**MAT 150 Trigonometry (3)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 150

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.

**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.

**MAT 155 Contemporary College Math (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into 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.

**MAT 156 College Algebra - Educators (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 156

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.

**MAT 157 College Statistics - General Education (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 155

Topics include constructing and interpreting graphs, descriptive statistics, sampling techniques, counting techniques, probability, probability distributions, confidence interval estimates, hypothesis testing, correlation, regression, and ANOVA. Students may not receive credit for both Math 157 and Math 175. This course is recommended for non-STEM majors.

**MAT 158 College Algebra - General Education (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 158.

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.

**MAT 162 College Algebra - STEM (4)**

**Prerequisites:** MAT 121 with a grade of C or better or placement into MAT 162

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.

**MAT 171 Pre-Calculus Mathematics (6)**

**Prerequisites:** MAT 121 with a grade of B or better or placement into 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.

**LMAT 175 Introductory Statistics (3)**

**Prerequisites:** MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into MAT 175

Topics include descriptive statistics, sampling techniques, counting techniques, probability,

probability distributions, confidence interval estimates, hypothesis testing, simple linear regression, and one-way ANOVA.

**MAT 180 Calculus and Analytic Geometry I (5)**

**Prerequisites:** MAT 171 with a grade of C or better or MAT 150, MAT 152 and MAT 158 with a grade of C or better or both MAT 150 and MAT 162 with a grade of C or better or placement into 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.

**MAT 201 Structure of Math Systems I (3)**

**Prerequisites:** MAT 156 or MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into 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.

**MAT 202 Structure of Math Systems II (3)**

**Prerequisites:** MAT 156 or MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into 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.

**MAT 210 Survey Calculus (4)**

**Prerequisites:** MAT 158 or MAT 160 or MAT 162 with a grade of C or better or placement into 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.

**MAT 230 Calculus and Analytic Geometry II (5)**

**Prerequisites:** MAT 180 with a grade of C or better or placement into 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.

**MAT 240 Calculus and Analytic Geometry III (5)**

**Prerequisites:** MAT 230 with a grade of C or better

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.

**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.

**MAT 250 Differential Equations (3)**

**Prerequisites:** MAT 240 with a grade of C or better

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.

**MAT 260 A Transition to Theoretical Mathematics (3)**

**Prerequisites:** MAT 230 with a grade of C or better

Emphasis on use of instrumentation and process control. Concepts and measurement of physical variables and brief descriptions of individual process and combination of processes used in industry, such as go/no go, plug gauges, flatness, and coordinate measuring machine (CMM), control plans, and fixtures will be covered. Theory of operation and application of associated process instruments included.

**MEDICAL ASSISTING - MDA****MDA 115 Pharmacology and Administration of Medications (2)**

**Corequisites:** HIM 110 and MDA 116

Instruction in concepts and application of pharmacological principles. Focuses on drug classifications, principles and procedures of medication administration, mathematical systems and conversions, calculation of drug problems, and medico-legal responsibilities of the medical assistant.

**MDA 116 Pharmacology and Administration of Medications Clinical (1)**

**Corequisites:** MDA 115

Clinical component in which the student applied medication administration concepts in the simulated setting using mathematical systems and conversions, calculation of medication doses, and methods of administration to include oral, parenteral and topical medications.

**MDA 120 Administrative Procedures (3)**

**Prerequisites:** HIM 110, HIM 140 and HIM 141

Focus is on medical office procedures including appointment scheduling, medical records creation and maintenance, interpersonal communications, coding, billing, collecting, third party reimbursement, credit arrangements and computer use in the medical office.

**MDA 121 Medical Specialties (2)**

**Prerequisites:** MDA 115 and MDA 116

**Corequisites:** MDA 120 and MDA 122

Provides an overview and competency training related to a variety of medical practice specialties.

**MDA 122 Medical Specialties Lab (1)**

**Corequisites:** MDA 121

Skills competency and check-off for tests and procedures related to a variety of specialty medical practices.

**MDA 140 Procedures in a Clinical Setting (2)**

**Corequisites:** MDA 120 and MDA 141

Emphasis is on patient assessment, examination and treatment as directed by physicians. Includes vital signs, collection and documentation of patient information, asepsis, office clinical procedures and other treatments as appropriate for ambulatory care settings.

**MDA 141 Procedures in a Clinical Setting Clinical (1)**

**Corequisites:** MDA 140

Skills competency and check-off for patient assessment, examination and treatment assistance, specimen collection, documentation and procedure check-offs related to all outpatient/ambulatory clinical testing and procedures completed in the physician office.

**MDA 150 Professional Capstone (1)**

**Prerequisites:** Completion of all coursework.

**Corequisites:** MDA 151

Health-related work-based learning experience enables students to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinical professional (faculty or preceptor) generally in a clinical setting. Clinical education is unpaid learning experience.

**MDA 151 Clinical Externship (4)**

**Prerequisites:** Completion of all coursework.

**Corequisites:** MDA 150

Health-related work-based learning experience enables students to apply specialized occupational theory, skills and concepts in real-life setting. Direct supervision is provided by the clinical professional (faculty or preceptor), generally in the professional physician or other outpatient setting. Clinical education is unpaid learning experience of 210 clock hours.

**MUSIC - MUS****MUS 021 Recital and Concert Attendance (0)**

Attendance and/or participation at musical performances and master classes, repeated until degree requirement is satisfactorily met.

**MUS 101 Foundations of Music (3)**

Study in clefs, notation, rhythm, scale structures, pitch, and melodic writing. Basic introduction with no previous experience necessary.

**MUS 102 Accompanying (0.25)**

**Prerequisites:** MUS 151 and instructor permission

Practical experience and working knowledge of basic and advanced techniques for successful piano accompanying.

**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.

**MUS 106 SCC Singers II (1)**

Second enrollment of MUS 105.

**MUS 107 SCC Singers III (1)**

Third enrollment of MUS 105.

**MUS 108 SCC Singers IV (1)**

Fourth enrollment of MUS 105..

**MUS 109 American Popular Music (3)**

Survey of American popular music from 1840 to the present. Examination of the types, styles, and influential musicians of American pop music.

**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.

**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.

**MUS 113 Musical Theatre Appreciation I (3)**

Study of musical theatre from its beginnings through Rodgers & Hammerstein. Students may not receive credit for both MUS 113 and THE 229.

**MUS 114 Musical Theatre Appreciation II (3)**

Study of musical theatre from Rodgers and Hammerstein to the present. Students may not receive credit for both MUS 114 and THE 230.

**MUS 115 Chamber Choir (1)**

**Prerequisites:** Audition with instructor permission

Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours.

**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.

**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.

**MUS 118 Chamber Choir IV (1)**

**Prerequisites:** MUS 117

Select choral ensemble specializing in chamber, madrigal, and show choir literature, culminating in public performance. May be repeated for up to 3 credit hours.

**MUS 119 Piano Proficiency I (1)**

**Corequisites:** MUS 131 and MUS 133

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.

**MUS 120 Piano Proficiency II (1)**

**Prerequisites:** MUS 119 or Piano Skills Exam

Continuation of MUS 119.

**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.

**MUS 122 Piano Class II (2)**

**Prerequisites:** MUS 121

Continuation of MUS 121.

**MUS 123 Voice Class I (1)**

Fundamentals of tone production, diction, posture, and breathing. Includes simple songs and part singing.

**MUS 124 Voice Class II (1)**

**Prerequisites:** MUS 123

Continuation of MUS 123.

**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. Recommended materials: Classic Guitar.

**MUS 126 Guitar Class II (1)**

Second enrollment of MUS 125.

**MUS 127 Guitar Class III (1)**

Third enrollment of MUS 125.

**MUS 128 Guitar Class IV (1)**

Fourth enrollment of MUS 125.

**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.

**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.

**MUS 131 Music Theory I (3)**

**Prerequisites:** MUS 101 or instructor permission

**Corequisites:** MUS 133

Study of basic rhythm, melody, principal triads and inversions, dominant seventh chords, cadences, non-harmonic tones, part-writing, and keyboard harmony.

**MUS 132 Music Theory II (3)**

**Prerequisites:** MUS 131

**Corequisites:** MUS 134

Continuation of MUS 131 including secondary triads, seventh chords, secondary dominants, elementary modulation, figured bass, and keyboard harmony.

**MUS 133 Ear Training and Sight-singing I (1)**

**Prerequisites:** MUS 101 or Music Assessment Test

**Corequisites:** MUS 131

Study of rhythmic, melodic, and harmonic dictation in major and minor scales and sight-singing in treble and bass clefs.

**MUS 134 Ear Training and Sight-singing II (1)**

**Prerequisites:** MUS 133

**Corequisites:** MUS 132

Continuation of MUS 133 involving more complex rhythmic, melodic, and harmonic dictation and sight-singing.

**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.

**MUS 136 Women's Chorale II (1)**

Second enrollment of MUS 135.

**MUS 137 Women's Chorale III (1)**

Third enrollment of MUS 135.

**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.

**MUS 140 Percussion Class IV (1)**

**Prerequisites:** MUS 139

Fourth semester of Percussion Class.

**MUS 141 Show Choir I (1)**

**Prerequisites:** Audition

Select choral ensemble presenting choreographed numbers from musical theatre and contemporary popular music.

**MUS 142 Show Choir II (1)**

**Prerequisites:** Audition

Second enrollment of MUS 141.

**MUS 143 Show Choir III (1)**

**Prerequisites:** Audition

Third enrollment of MUS 141.

**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.

**MUS 146 Jazz Band II (1)**

**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.

**MUS 147 Jazz Band III (1)****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.

**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.

**MUS 162 English/Italian Diction (1)**

Basic study of International Phonetic Alphabet and comprehensive study of rules, phonetics, and techniques of English and Italian diction in performance.

**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.

**MUS 164 Jazz Improvisation (2)****Prerequisites:** MUS 101 or instructor permission

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.

**MUS 165 Instrumental Chamber Ensemble I (1)****Prerequisites:** Audition

Performance class; students study music and performance techniques through rehearsals culminating in public performances. Must supply own instrument.

**MUS 166 Instrumental Chamber Ensemble II (1)****Prerequisites:** MUS 165

Second enrollment of MUS 165.

**MUS 167 Instrumental Chamber Ensemble III (1)****Prerequisites:** MUS 166

Third enrollment of MUS 165.

**MUS 175 Concert Band I (1)**

Students study music techniques through rehearsals culminating in public performances. Must supply own instrument.

**MUS 176 Concert Band II (1)****Prerequisites:** MUS 175

Second enrollment of MUS 175.

**MUS 177 Concert Band III (1)****Prerequisites:** MUS 176

Third enrollment of MUS 175.

**MUS 178 Concert Band IV (1)****Prerequisites:** MUS 177

Fourth enrollment of MUS 175.

**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.

**MUS 188 Orchestra IV (1)****Prerequisites:** MUS 187

Continuation of MUS 185.

**MUS 195 Wind Ensemble I (1)****Prerequisites:** Audition with instructor permission**Corequisites:** Concert Band

A select 12-20 piece ensemble; students prepare music culminating in public performance.

**MUS 196 Wind Ensemble II (1)****Prerequisites:** MUS 195**Corequisites:** Concert Band

Second Enrollment of MUS 195.

**MUS 197 Wind Ensemble III (1)****Prerequisites:** MUS 196**Corequisites:** Concert Band

Third enrollment of MUS 195.

**MUS 198 Wind Ensemble IV (1)****Prerequisites:** MUS 197**Corequisites:** Concert Band

Fourth enrollment of MUS 195.

**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.

**MUS 220 Piano Proficiency IV (1)****Prerequisites:** MUS 120 or Piano Skills Exam

Continuation of MUS 219 to prepare music majors for piano proficiency exam.

**MUS 225 Elements of Conducting (3)****Prerequisites:** MUS 101 or MUS 131 or MUS 132 or MUS 281 or MUS 282

Introduction to baton techniques and elements of interpretation in conducting choral and instrumental music.

**MUS 229 History of American Musical Theatre I (3)**

Study of American musical theatre from its origins through Rodgers & Hammerstein. Students taking this course may not receive credit for MUS 113.

**MUS 230 History of American Musical Theatre II (3)**

Study of American musical theatre from Rodgers & Hammerstein to the present. Students taking this course may not receive credit for MUS 114.

**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.

**MUS 232 Music History II (3)****Corequisites:** MUS 231 (recommended but not required)

Continuation of MUS 231. Survey of music from 1600-1827.

**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.

**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.

**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.

**MUS 251 Music Audio Production II (3)****Prerequisites:** MUS 250

Expands on recording curriculum explored in Audio 1 by increased focus on fundamentals and stereo recording. Concentration is on multi-track recording and in-depth use of Digital Audio Workstation software.

**MUS 259 Music Theatre Workshop I (1)**

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theatre. Students may not receive credit for both MUS 259 and THE 259.

**MUS 260 Music Theatre Workshop II (1)**

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theatre. Students may not receive credit for both MUS 260 and THE 260.

**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.

**MUS 270 Musical Theatre Practicum (1-3)**

A performing ensemble workshop emphasizing individualized training and performance of musical theatre literature. Musical coaching/rehearsal, stage movement, character development, and technical stage training may be included.

**MUS 281 Music Theory III (3)****Prerequisites:** MUS 132**Corequisites:** MUS 283

Continuation of MUS 132. Including secondary functions 1 and 2, modulations, Binary and Ternary Form.

**MUS 282 Music Theory IV (3)****Prerequisites:** MUS 281**Corequisites:** MUS 284

Continuation of MUS 281.

**MUS 283 Ear Training and Sight-singing III (1)****Prerequisites:** MUS 134**Prerequisites:** MUS 281

Continuation of MUS 134.

**MUS 284 Ear Training and Sight-singing IV (1)****Prerequisites:** MUS 283**Prerequisites:** MUS 282

Continuation of MUS 283.

**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.

**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.

**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.

**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.

**MUS 295 Opera Theatre 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.

**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.

**MUSIC/PRIVATE LESSONS - MVB****MVB 101 Trumpet Lessons I (1-2)**

Individual Trumpet Lessons, starting at the appropriate level.

**MVB 102 Trumpet Lessons II (1-2)**

**Prerequisites:** MVB 101

Second enrollment of MVB 101.

**MVB 103 Trumpet Lessons III (1-2)**

**Prerequisites:** MVB 102

Third enrollment of MVB 101.

**MVB 104 Trumpet Lessons IV (1-2)**

**Prerequisites:** MVB 103

Fourth enrollment of MVB 101.

**MVB 111 French Horn Lessons I (1-2)**

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)**

**Prerequisites:** MVB 112

Third enrollment of MVB 111.

**MVB 114 French Horn Lessons IV (1-2)**

**Prerequisites:** MVB 113

Fourth enrollment of MVB 111.

**MVB 121 Trombone Lessons I (1-2)**

Individual Trombone Lessons, starting at the appropriate level.

**MVB 122 Trombone Lessons II (1-2)**

**Prerequisites:** MVB 121

Second enrollment of MVB 121.

**MVB 123 Trombone Lessons III (1-2)**

**Prerequisites:** MVB 122

Third enrollment of MVB 121.

**MVB 124 Trombone Lessons IV (1-2)**

**Prerequisites:** MVB 123

Fourth enrollment of MVB 121.

**MVB 131 Euphonium Lessons I (1-2)**

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)**

**Prerequisites:** MVB 132

Third enrollment of MVB 131.

**MVB 134 Euphonium Lessons IV (1-2)**

**Prerequisites:** MVB 133

Fourth enrollment of MVB 131.

**MVB 141 Tuba Lessons I (1-2)**

Individual Tuba Lessons, starting at the appropriate level.

**MVB 142 Tuba Lessons II (1-2)**

**Prerequisites:** MVB 141

Second enrollment of MVB 141.

**MVB 143 Tuba Lessons III (1-2)**

**Prerequisites:** MVB 142

Third enrollment of MVB 141.

**MVB 144 Tuba Lessons IV (1-2)**

**Prerequisites:** MVB 143

Fourth enrollment of MVB 141.

**MUSIC/PRIVATE LESSONS - GUITAR - MVG****MVG 101 Guitar-Classical Lessons I (1-2)**

Individual Guitar-Classical Lessons, starting at the appropriate level.

**MVG 102 Guitar-Classical Lessons II (1-2)**

**Prerequisites:** MVG 101

Second enrollment of MVG 101.

**MVG 103 Guitar-Classical Lessons III (1-2)**

**Prerequisites:** MVG 102

Third enrollment of MVG 101.

**MVG 104 Guitar-Classical Lessons IV (1-2)**

**Prerequisites:** MVG 103

Fourth enrollment of MVG 101.

**MVG 111 Guitar-Jazz Lessons I (1-2)**

Individual Guitar-Jazz Lessons, starting at the appropriate level.

**MVG 112 Guitar-Jazz Lessons II (1-2)**

**Prerequisites:** MVG 111

Second enrollment of MVG 111.

**MVG 113 Guitar-Jazz Lessons III (1-2)**

**Prerequisites:** MVG 112

Third enrollment of MVG 111

**MVG 114 Guitar-Jazz Lessons IV (1-2)**

**Prerequisites:** MVG 113

Fourth enrollment of MVG 111

**MVG 121 Guitar-Bass Lessons I (1-2)**

Individual Guitar-Bass Lessons, starting at the appropriate level.

**MVG 122 Guitar-Bass Lessons II (1-2)**

**Prerequisites:** MVG 121

Second enrollment of MVG 121

**MVG 123 Guitar-Bass Lessons III (1-2)**

**Prerequisites:** MVG 122

Third enrollment of MVG 121

**MVG 124 Guitar-Bass Lessons IV (1-2)**

**Prerequisites:** MVG 123

Fourth enrollment of MVG 121.

**MVG 221 Guitar-Bass Lessons V (2-Jan)**

**Prerequisites:** MVG 124

Fifth enrollment of MVG 121.

**MUSIC/PRIVATE LESSONS - PERCUSSION - MVP****MVP 101 Percussion Lessons I (1-2)**

Individual Percussion Lessons, starting at the appropriate level.

**MVP 102 Percussion Lessons II (1-2)**

**Prerequisites:** MVP 101

Second enrollment of MVP 101.

**MVP 103 Percussion Lessons III (1-2)**

**Prerequisites:** MVP 102

Third enrollment of MVP 101.

**MVP 104 Percussion Lessons IV (1-2)**

**Prerequisites:** MVP 103

Fourth enrollment of MVP 101.

**MVP 201 Percussion Lessons V (1-2)**

**Prerequisites:** MVP 104

Fifth enrollment of MVP 101.

**MVP 202 Percussion Lessons VI (1-2)**

**Prerequisites:** MVP 201

Sixth enrollment of MVP 101.

**MVP 203 Percussion Lessons VII (1-2)**

**Prerequisites:** MVP 202

Seventh enrollment of MVP 101.

**MVP 204 Percussion Lessons VIII (1-2)**

**Prerequisites:** MVP 203

Eighth enrollment of MVP 101.

**MUSIC/PRIVATE LESSONS - PIANO - MVK****MVP 203 Percussion Lessons VII (1-2)**

Individual Keyboard Lessons, starting at the appropriate level.

**MVK 102 Keyboard Lessons II (1-2)**

**Prerequisites:** MVK 101

Second enrollment of MVK 101.

**MVK 103 Keyboard Lessons III (1-2)**

**Prerequisites:** MVK 102

Third enrollment of MVK 101.

**MVK 104 Keyboard Lessons IV (1-2)**

**Prerequisites:** MVK 103

Fourth enrollment of MVK 101.

**MVK 111 Organ Lessons I (1-2)**

Individual Organ Lessons, starting at the appropriate level.

MVK 112 Organ Lessons II (1-2)

**Prerequisites:** MVK 111

Second enrollment of MVK 111.

MVK 113 Organ Lessons III (1-2)

**Prerequisites:** MVK 112

Third enrollment of MVK 111.

MVK 114 Organ Lessons IV (1-2)

**Prerequisites:** MVK 113

Fourth enrollment of MVK 111.

MVK 201 Keyboard Lessons V (1-2)

**Prerequisites:** MVK 104

Fifth enrollment of MVK 101.

MVK 202 Keyboard Lessons VI (1-2)

**Prerequisites:** MVK 201

Sixth enrollment of MVK 101.

MVK 203 Keyboard Lessons VII (1-2)

**Prerequisites:** MVK 202

Seventh enrollment of MVK 101.

MVK 204 Keyboard Lessons VIII (1-2)

**Prerequisites:** MVK 203

Eighth enrollment of MVK 101

## MUSIC/PRIVATE LESSONS - STRING - MVS

MVS 131 Violin Lessons I (1-2)

Individual Violin Lessons, starting at the appropriate level.

MVS 132 Violin Lessons II (1-2)

**Prerequisites:** MVS 131

Second enrollment of MVS 131

MVS 133 Violin Lessons III (1-2)

**Prerequisites:** MVS 132

Third enrollment of MVS 131.

MVS 134 Violin Lessons IV (1-2)

**Prerequisites:** MVS 133

Fourth enrollment of MVS 131.

MVS 141 Viola Lessons I (1-2)

Individual Viola Lessons, starting at the appropriate level.

MVS 142 Viola Lessons II (1-2)

**Prerequisites:** MVS 141

Second enrollment of MVS 141

MVS 143 Viola Lessons III (1-2)

**Prerequisites:** MVS 142

Third enrollment of MVS 141

MVS 144 Viola Lessons IV (1-2)

**Prerequisites:** MVS 143

Fourth enrollment of MVS 141

MVS 151 Cello Lessons I (1-2)

Individual Cello Lessons, starting at the appropriate level.

MVS 152 Cello Lessons II (1-2)

**Prerequisites:** MVS 151

Second enrollment of MVS 151

MVS 153 Cello Lessons III (1-2)

**Prerequisites:** MVS 152

Third enrollment of MVS 151

MVS 154 Cello Lessons IV (1-2)

**Prerequisites:** MVS 153

Fourth Enrollment of MVS 151

MVS 161 Bass Lessons I (1-2)

Individual Bass Lessons, starting at the appropriate level

MVS 162 Bass Lessons II (1-2)

**Prerequisites:** MVS 161

Second enrollment of MVS 161

MVS 163 Bass Lessons III (1-2)

**Prerequisites:** MVS 162

Third enrollment of MVS 161.

MVS 164 Bass Lessons IV (1-2)

**Prerequisites:** MVS 163

Fourth enrollment of MVS 161.

MVS 231 Violin Lessons V (1-2)

**Prerequisites:** MVS 134

Fifth enrollment of MVS 131.

MVS 232 Violin Lessons VI (1-2)

**Prerequisites:** MVS 231

Sixth Enrollment of MVS 131.

## MUSIC/PRIVATE LESSONS - VOCAL - MVV

MVV 101 Voice Lessons I (1-2)

Individual Voice Lessons, Starting at the appropriate level.

MVV 102 Voice Lessons II (1-2)

**Prerequisites:** MVV 101

Second enrollment of MVV 101.

MVV 103 Voice Lessons III (1-2)

**Prerequisites:** MVV 102

Third enrollment of MVV 101.

MVV 104 Voice Lessons IV (1-2)

**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)

**Prerequisites:** MVV 201

Sixth enrollment of MVV 101.

MVV 203 Voice Lessons VII (1-2)

**Prerequisites:** MVV 202

Seventh enrollment of MVV 101

MVV 204 Voice Lessons VIII (1-2)

**Prerequisites:** MVV 203

Eighth enrollment of MVV 101.

## MUSIC/PRIVATE LESSONS - WOODWIND - MVW

MVW 101 Flute/Piccolo Lessons I (1-2)

Individual Flute/Piccolo Lessons, starting at the appropriate level.

MVW 102 Flute/Piccolo Lessons II (1-2)

**Prerequisites:** MVW 101

Second enrollment of MVW 101.

MVW 103 Flute/Piccolo Lessons III (1-2)

**Prerequisites:** MVW 102

Third enrollment of MVW 101.

MVW 104 Flute/Piccolo Lessons IV (1-2)

**Prerequisites:** MVW 103

Fourth enrollment of MVW 101.

MVW 111 Oboe Lessons I (1-2)

Individual Oboe Lessons, starting at the appropriate level.

MVW 112 Oboe Lessons II (1-2)

**Prerequisites:** MVW 111

Second enrollment of MVW 111.

MVW 113 Oboe Lessons III (1-2)

**Prerequisites:** MVW 112

Third enrollment of MVW 111.

MVW 114 Oboe Lessons IV (1-2)

**Prerequisites:** MVW 113

Fourth enrollment of MVW 111.

MVW 121 Clarinet Lessons I (1-2)

Individual Clarinet Lessons, starting at the appropriate level.

MVW 122 Clarinet Lessons II (1-2)

**Prerequisites:** MVW 121

Second enrollment of MVW 121.

MVW 123 Clarinet Lessons III (1-2)

**Prerequisites:** MVW 122

Third enrollment of MVW 121.

MVW 124 Clarinet Lessons IV (1-2)

**Prerequisites:** MVW 123

Fourth enrollment of MVW 121.

MVW 131 Bassoon Lessons I (1-2)

Individual Bassoon Lessons, starting at the appropriate level.

MVW 132 Bassoon Lessons II (1-2)

**Prerequisites:** MVW 131

Second enrollment of MBW 131.

MVW 133 Bassoon Lessons III (1-2)

**Prerequisites:** MVW 132

Third enrollment of MVW 131.

MVW 134 Bassoon Lessons IV (1-2)

**Prerequisites:** MVW 133

Fourth enrollment of MVW 131.

MVW 141 Saxophone Lessons I (1-2)

Individual Saxophone Lessons, starting at the appropriate level.

MVW 142 Saxophone Lessons II (1-2)

**Prerequisites:** MVW 141

Second enrollment of MVW 141.

MVW 143 Saxophone Lessons III (1-2)

**Prerequisites:** MVW 142

Third enrollment of MVW 141.

MVW 144 Saxophone Lessons IV (1-2)

**Prerequisites:** MVW 143

Fourth enrollment of MVW 141.

**NURSING - NUR****NUR 102 LPN Bridge to ADN Program (1)**

**Prerequisites:** ENG 102, SOC 101, CHM 101/103 or CHM 106 and one of the following: HIS 101, HIS 102, HIS 115, HIS 270, POL 101 or POL 102

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.

**NUR 103 Fundamentals of Professional Nursing (9)**

**Prerequisites:** ENG 101, BIO 250A/250B with a grade of B or better and CHM 101/103 with a grade of B or better

**Corequisites:** NUR 113 and NUR 123

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.

**NUR 104 Professional Nursing Across the Lifespan I (11)**

**Prerequisites:** BIO 250A/250B and CHM 101/103 with a grade of B or better, ENG 101, PSY 101, NUR 103, NUR 113 and NUR 123

**Corequisites:** BIO 251A/251B, NUR 114 and NUR 124

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.

**NUR 113 Fundamentals of Professional Nursing Lab (0)**

**Corequisites:** NUR 103 and NUR 123

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.

**NUR 114 Professional Nursing Across the Lifespan I Lab (0)**

**Prerequisites:** NUR 103, NUR 113 and NUR 123

**Corequisites:** NUR 104 and NUR 124

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.

**NUR 123 Fundamentals of Professional Nursing Clinical (0)**

**Corequisites:** NUR 103 and NUR 113

Students care for patients in the nursing home and/or hospital/health care center. Ten clinical laboratory hours per week.

**NUR 124 Professional Nursing Across the Lifespan I Clinical (0)**

**Prerequisites:** NUR 103, NUR 113 and NUR 123

**Corequisites:** NUR 104 and NUR 114

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.

**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.

**NUR 220 RNFA Certification Clinical (3)**

**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.

**NUR 253 Professional Nursing Across the Lifespan II (10)**

**Prerequisites:** BIO 247, BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, PSY 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123 and NUR 124

**Corequisites:** NUR 263, NUR 273 and any two of the following: SOC 101, Any Literature Course or ENG 102, and US History or Government

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.

**NUR 254 Professional Nursing Across the Lifespan III (11)**

**Prerequisites:** BIO 247, BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, ENG 102 or Any Literature Course, PSY 101, SOC 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123, NUR 124, NUR 253, NUR 263 and NUR 273

**Corequisites:** NUR 264 and NUR 274

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.

**NUR 263 Professional Nursing Across the Lifespan II Lab (0)**

**Prerequisites:** BIO 247, BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, PSY 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123 and NUR 124

**Corequisites:** NUR 253 and NUR 273

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.

**NUR 264 Professional Nursing Across the Lifespan III Lab (0)**

**Prerequisites:** BIO 247, BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, ENG 102 or Any Literature Course, PSY 101, SOC 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123, NUR 124, NUR 253, NUR 263 and NUR 273

**Corequisites:** NUR 254 and NUR 274

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.

**NUR 273 Professing Nursing Across the Lifespan II Clinical (0)**

**Prerequisites:** BIO 247, BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, PSY 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123 and NUR 124

**Corequisites:** NUR 253 and NUR 263

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.

**NUR 274 Professional Nursing Across the Lifespan III Clinical (0)**

**Prerequisites:** BIO 247, BIO 250A/250B, BIO 251A/251B, CHM 101/103, ENG 101, ENG 102 or Any Literature Course, PSY 101, SOC 101, NUR 103, NUR 104, NUR 113, NUR 114, NUR 123, NUR 124, NUR 253, NUR 263 and NUR 273

**Corequisites:** NUR 254 and NUR 264

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.

**OCCUPATIONAL THERAPY - OTA****OTA 105 Fundamentals of OTA I (12)**

**Prerequisites:** ENG 101 and MAT 098

**Corequisites:** OTA 115 and OTA 125

Introduction to occupational therapy, including history, philosophy and foundational skills required for OT practice. Context is offered based on the fundamental skills needed in psychosocial dysfunction, physical and cognitive dysfunction, and pediatrics using the Occupational Therapy Practice Framework.

Theories guiding OT practice, values, and ethics of the profession discussed.

**OTA 106 Fundamentals of OTA II (12)**

**Prerequisites:** OTA 105, OTA 115 and OTA 125

**Corequisites:** OTA 116, OTA 126 and MAT 147

Build on foundation skills needed for OT practice and focuses on fundamental assessment and intervention skills in occupational therapy in psychosocial, physical, cognitive and pediatric dysfunction. Understanding of the OT process of assessment, treatment planning and implementation, transitions and discontinuation of OT services is addressed using the OTPF as a guide.

**OTA 115 Kinesiology/ Functional A & P (0)**

**Prerequisites:** ENG 101 and MAT 098

**Corequisites:** OTA 105 and OTA 125

Foundation in the biological, physical, and physiological application in the practice of occupational therapy. Students will demonstrate understanding and knowledge of the structure and function of the human body including the musculoskeletal, nervous, cardiovascular, pulmonary, and endocrine systems. Students will apply knowledge for foundational practice skills such as ROM, assessment of muscle control, transfers, vital signs, body mechanics, client positioning and safe handling techniques.

**OTA 116 Applied A & P in Health & Disease (0)**

**Prerequisites:** OTA 105, OTA 115 and OTA 125

**Corequisites:** OTA 106, OTA 126 and MAT 147

Continuation of the foundational skills practiced in previous coursework. Students use of meaningful activities as defined by OTPF focusing on performance areas that specifically address performance skills such as sensory motor, cognitive and psychosocial components. Assessment and intervention strategies and techniques that emphasize the use of purposeful activities and occupation to enhance role function will be the focus of practical application of these skills.

**OTA 125 Occupation Based Activities I (0)****Prerequisites:** OTA 125 Occupation Based Activities I (0)**Corequisites:** OTA 105 and OTA 115

Introduction of occupation-based activities and the essential role occupation plays in the delivery of occupational therapy services. Primary emphasis is on the Occupational Therapy Practice Framework and its application in activity analysis and implementation of services.

**OTA 126 Occupation Based Activities II (0)****Prerequisites:** OTA 105, OTA 115 and OTA 125**Corequisites:** OTA 106, OTA 116 and MAT 147

Builds on foundational skills and concepts of occupation-based activities and the essential role occupation plays in the delivery of occupational therapy services. The Occupational Therapy Practice Framework and its focus on activity analysis is the basis of practical application for assessment and intervention in clinical and nonclinical settings.

**OTA 205 Fundamentals of OTA III (13)****Prerequisites:** OTA 106, OTA 116 and OTA 126**Corequisites:** OTA 215 and OTA 225

Builds on foundational and fundamental skills needed for entry-level occupational therapy practice related to psychosocial, physical, cognitive and pediatrics. Understanding of entry-level competency skills and implementation of OT treatment for demonstrating service competency is emphasized.

**OTA 206 OTA Capstone (2)****Prerequisites:** OTA 205, OTA 215 and OTA 225**Corequisites:** OTA 226 and OTA 227

Final phase of professional development and culminating experiences for students in the Occupational Therapy Assistant Program. Provides an opportunity for reflection on the integration of academic coursework and

fieldwork experiences and prepares the OTA student to enter the professional realm.

**OTA 215 Professional Development/Clinical Competency (0)****Prerequisites:** OTA 106, OTA 116, OTA 126 and MAT 247**Corequisites:** OTA 205 and OTA 225

Builds on foundational and fundamentals skills needed for entry-level competency. Provides specific hands-on laboratory experience focused on demonstrating entry-level competency through student presentations, lab practical examinations and collaborative activities which reinforce foundational and fundamental skills previously practiced.

**OTA 225 Occupation Based Activities III (0)****Prerequisites:** OTA 106, OTA 116, OTA 126 and MAT 247**Corequisites:** OTA 205 and OTA 215

Builds on fundamental competency skills and concepts of entry-level practice using occupation-based activities and the essential role occupation plays in the delivery of occupational therapy services. The Occupational Therapy Practice Framework and the AOTA Fieldwork Performance Evaluation will be the basis of practical application for understanding entry-level competency in various clinical and non-clinical settings.

**OTA 226 OTA Practicum I (4)****Prerequisites:** OTA 205, OTA 215 and OTA 225**Corequisites:** OTA 206

Level II Fieldwork is the opportunity to practice in the field under direct supervision of a clinical fieldwork educator. Practice emphasis uses the Occupational Therapy Practice Framework as it relates to documentation, facilitation of activities of daily living performance, ROM/MMT, positioning, splinting, functional activities, functional mobility/transfers, treatment planning and addressing environmental barriers.

**OTA 227 OTA Practicum II (4)****Prerequisites:** OTA 205, OTA 215 and OTA 225**Corequisites:** OTA 206

Level II Fieldwork is the opportunity to practice in the field under direct supervision of a clinical fieldwork educator. Practice emphasis uses the Occupational Therapy Practice Framework as it relates to documentation, facilitation of activities of daily living performance, ROM/MMT, positioning, splinting, functional activities, functional mobility/transfers, treatment planning and addressing environmental barriers.

**PHILOSOPHY - PHIL****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.

**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.

**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.

**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.

**PHL 260 Reason and Religion (3)****Prerequisites:** ENG 101

Examines the tension between Reason and Religion in the Western Tradition on the question of the good life from the Ancient World to the 21st Century.

**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.

**PHYSICAL SCIENCE - PHY****PHY 105 Environmental Geology (3)**

Examination of geologic processes and hazards that influence human activities and the geologic aspects of pollution and waste-disposal.

**PHY 107 Environmental Geology Laboratory (1)****Corequisites:** PHY 105

Exercises focus on environmental and social issues relevant to environmental problems and the effects of human interaction in geologic processes.

**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.

**PHY 113 Introduction to Physical Science Laboratory (1)****Corequisites:** PHY 111 (previous or concurrent)

Laboratory reinforces topics discussed in Physical Science lecture (PHY 111) by utilizing hands-on experimentation.

**PHY 125 Introduction to Physical Geology (3)1)**

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.

**PHY 127 Introduction to Physical Geology Laboratory (1)****Corequisites:** PHY 125 (previous or concurrent)

Laboratory reinforces topics discussed in Physical Geology lecture (PHY 125) by utilizing practical experimentation and observations.

**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.

**PHY 131 Astronomy Laboratory (1)****Corequisites:** PHY 130 (previous or concurrent)

Analysis and interpretation of astronomical data and observations with telescopes. No prior knowledge of astronomy assumed.

**PHY 145 Historical Geology (3)****Corequisites:** PHY 147

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.

**PHY 147 Historical Geology Laboratory (1)****Corequisites:** PHY 145

Exercises in interpreting Earth's history by examination of sediments, sedimentary rocks, geologic time, and identification and taxonomic classification of fossils.

**PHY 150 General Physics I (3)****Prerequisites:** MAT 150 or MAT 158 or MAT 162**Corequisites:** PHY 153

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.

**PHY 151 General Physics II (3)****Prerequisites:** PHY 150 and PHY 153**Corequisites:** PHY 154

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.

**PHY 153 General Physics I Laboratory (1)****Corequisites:** PHY 150

Experimental component of PHY 150.

**PHY 154 General Physics II Laboratory (1)****Prerequisites:** PHY 150 and PHY 153**Corequisites:** PHY 151

Experimental component for PHY 151.

**PHY 210/AGS 210 Soils (3)****Prerequisites:** CHM 101/103 or CHM 115



with a grade of C or better

**Corequisites:** PHY 211/AGS 211

Introduction to soil sciences with emphasis placed on physical, biological and chemical properties as related to moisture, temperature, drainage and tillage. Applications including land use, plant growth and environmental problems. Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

PHY 211/AGS 211 Soils Lab (1)

**Prerequisites:** CHM 101/103 or CHM 115 with a grade of C or better

**Corequisites:** PHY 210/AGS 210

Laboratory and computer methods for evaluation of the physical, chemical and biological properties of soil.

PHY 250 Engineering Physics I (5)

**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.

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.

PHY 290 Undergraduate Research (1-3)

**Prerequisites:** Instructor permission

Introduction to research techniques and methods used in scientific experimentation.

## POLITICAL SCIENCE -

## POL

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.

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.

POL 201 International Relations (3)

**Prerequisites:** Any POL, HIS or GEO course

Study of factors shaping relationships among nations with emphasis upon developing nations and economic, political and environmental issues.

POL 210 Comparative Politics (3)

**Prerequisites:** Any POL, HIS, or GEO course

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 Politics (3)

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.

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 question 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.

POL 296 Political Science Internship (3)

**Prerequisites:** POL 101 or POL 102 and instructor permission

**Corequisites:** 2.5 GPA and Sophomore standing

Students placed in participatory position in government office or community organization. Requires research paper relating to some aspect of internship.

POL 299 Topics in Political Science (3)

**Prerequisites:** Instructor permission

Exploration of one topic selected by department. Introduction to research techniques and seminar approved as integral part of scholarship.

## PRACTICAL NURSING - NPN

NPN 100 Personal and Vocational Concepts (1)

**Prerequisites:** Acceptance into practical nursing program.

**Corequisites:** NPN 101, NPN 111 and NPN 121

Role of LPN in relationship to other members of health care team is presented. Includes nursing history, professional ethics, and interpersonal relations in today's health care setting.

NPN 101 Fundamentals of Practical Nursing Theory (3)

**Prerequisites:** Acceptance into the Practical Nursing Program and BIO 200A/B with a grade of C or better.

**Corequisites:** NPN 100 and NPN 111

Beginning nursing students will acquire a foundation of basic nursing theory and developing clinical skills. Emphasis is on growth and development across the lifespan and the

nursing process as students apply principles of biology and physical sciences and social and behavioral sciences. Concepts included: review of relevant anatomy and physiology, nutrition, pharmacology, communication, interpersonal relations, culturally and spiritually sensitive care, client improvement in decision-making and care management and promotion of healthy lifestyles for clients and population. Practical application of the knowledge will occur in the lab component of the course. Technical skills learned will include vital sign assessment, hygiene, medical asepsis, mobility, head-to-toe assessment and medication administration, including medication math.

NPN 102 Practical Nursing Across the Lifespan I Theory (5)

**Prerequisites:** NPN 101 and NPN 111

**Corequisites:** NPN 112 and NPN 122

Builds on foundational knowledge gained in NPN 101 – Fundamentals of Practical Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making.

NPN 111 Fundamentals of Practical Nursing Lab (2)

**Prerequisites:** Acceptance into the Practical Nursing Program.

**Corequisites:** NPN 100 and NPN 101

Beginning nursing students will acquire a foundation of basic nursing theory and developing clinical skills. Emphasis is on growth and development across the lifespan and the nursing process as students apply principles of biology and physical sciences and social and behavioral sciences. Concepts included: review of relevant anatomy and physiology, nutrition, pharmacology, communication, interpersonal relations, culturally and spiritually sensitive care, client improvement in decision-making and care management and promotion of healthy lifestyles for clients and population. Practical

application of the knowledge will occur in the lab component of the course. Technical skills learned will include vital sign assessment, hygiene, medical asepsis, mobility, head-to-toe assessment and medication administration, including medication math.

NPN 112 Practical Nursing Across the Lifespan I Lab (2)

**Prerequisites:** NPN 101 and NPN 111

**Corequisites:** NPN 102 and NPN 122

Builds on foundational knowledge gained in NPN 101 – Fundamentals of Practical Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making.

NPN 122 Practical Nursing Across the Lifespan I Clinical (2)

**Prerequisites:** NPN 101 and NPN 111

**Corequisites:** NPN 102 and NPN 112

Builds on foundational knowledge gained in NPN 101 – Fundamentals of Practical Nursing. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making.

NPN 151 Practical Nursing Across the Lifespan II Theory (5)

**Prerequisites:** NPN 102, NPN 112 and NPN 122

**Corequisites:** NPN 161 and NPN 171

Builds on foundational knowledge gained in NPN 102 – Practical Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making.

NPN 152 Practical Nursing Across the Lifespan III Theory (5)

**Prerequisites:** NPN 151, NPN 161 and NPN 171

**Corequisites:** NPN 162 and NPN 172

Builds on foundational knowledge gained in NPN 151 – Practical Nursing Across the Lifespan II. Emphasis is on practical nursing leadership and management concepts including coordinating and managing continuous client care. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error, and support decision making.

**NPN 161 Practical Nursing Across the Lifespan II Lab (1.5)****Prerequisites:** NPN 102, NPN 112 and NPN 122**Corequisites:** NPN 151 and NPN 171

Builds on foundational knowledge gained in NPN 102 – Practical Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making.

**NPN 162 Practical Nursing Across the Lifespan III Lab (1)****Prerequisites:** NPN 151, NPN 161 and NPN 171**Corequisites:** NPN 152 and NPN 172

Builds on foundational knowledge gained in NPN 151 – Practical Nursing Across the Lifespan II. Emphasis is on practical nursing leadership and management concepts including coordinating and managing continuous client care. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error, and support decision making.

**NPN 171 Practical Nursing Across the Lifespan II Clinical (2.5)****Prerequisites:** NPN 102, NPN 112 and NPN 122**Corequisites:** NPN 151 and NPN 161

Builds on foundational knowledge gained in NPN 102 – Practical Nursing Across the Lifespan I. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error and support decision making.

**NPN 172 Practical Nursing Across the Lifespan III Clinical (3)****Prerequisites:** NPN 151, NPN 161 and NPN 171**Corequisites:** NPN 152 and NPN 172

Builds on foundational knowledge gained in NPN 151 – Practical Nursing Across the Lifespan II. Emphasis is on practical nursing leadership and management concepts including coordinating and managing continuous client care. Evidence-based nursing knowledge presented will focus on the nursing process encompassing the promotion, maintenance, and restoration of physical and mental health and the prevention of illness for individuals across the lifespan. Practical application of the knowledge learned will occur in the lab and clinical components of the course. Application based learning of client-centered care focuses on: respect for client differences, values, preferences, and expressed needs, client safety, quality of care, and use of technology to communicate, manage knowledge, mitigate error, and support decision making.

**PSYCHOLOGY - PSY****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.

**PSY 201 Child Psychology (3)****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.

**PSY 210 Human Growth and Development (3)****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.

**PSY 215 Adolescent Psychology (3)****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.

**PSY 216 Abnormal Psychology (3)****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.

**PSY 220 Personality Theories (3)****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.

**PSY 230 Social Psychology (3)****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.

**PSY 235 Introduction to Stereotyping, Prejudice and Discrimination (3)****Prerequisites:** PSY 101 or SOC 101

Focuses on social psychological research examining stereotyping, prejudice and discrimination. The history of human groups is replete with examples of how thoughts, feelings, and treatment of others depend on membership in various social categories. From Black Lives Matter to mansplaining, issues of stereotyping, prejudice, and discrimination grab attention and draw concern. Coursework brings together research from social, cognitive, affective, developmental, cultural and neural perspectives to examine the processes that reflect and perpetuate group biases. Students will read historical, editorial, empirical and theoretical works, and examine real-world phenomena with the goal of understanding the various ways that stereotypes and prejudice can impact intergroup relations.

**PSY 240 Introduction to Applied Behavior Analysis (3)****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.

**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.

**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.

**PSY 290 Special Topics in Psychology (1-3)**

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.

**READING - RDG****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. This course does not count toward graduation.

**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. This course does not count toward graduation.

**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. This course does not count toward graduation.

**RDG 085 Reading Fundamentals (3)****Prerequisites:** Course required based on assessment test reading scores.

This course is designed to help students expand the range of their reading comprehension and vocabulary skills with direct practice. This course does not count toward graduation.

**RDG 090 Vocabulary for College Reading (3)**

Directed practice in college vocabulary skills emphasizing communication skills, figures of speech, rhetoric, and clear and concise writing. Course is ESL friendly. This course does not count toward graduation.

**RDG 092 Reading Improvement (3)****Prerequisites:** Course required based on assessment test reading scores or RDG 085 with a Pass grade.

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. This course does not count toward graduation.

**RDG 093 Introduction to College Reading (3)**

**Prerequisites:** Course required based on assessment test reading scores or RDG 092 with a Pass grade.

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. This course does not count toward graduation.

**RDG 104 Reading For Non-Native Speakers (4)**

**Prerequisites:** Accuplacer ESL Listening Test score of 67 to 79 plus placement with the oral interview as required by the Academic ESL Program Coordinator.

**Corequisites:** ESL 100, ESL 103 and recommended corequisite ESL 107

Directed practice in college reading skills emphasizing vocabulary, comprehension, critical thinking, reading efficiency and reading across the curriculum for non-native speaking students.

**RDG 106 Advanced Reading for Non-Native Speakers (3)**

**Prerequisites:** ESL 103/COM 100, ESL 100 and ESL 104 with a grade of C or better

**Corequisites:** ESL 105 and recommended corequisite ESL 108

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.

**RDG 111 Reading Across the Disciplines (3)**

**Prerequisites:** ACT reading test score of 19 or Accuplacer 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.

**RDG 199 Phonics and Fluency (2)**

**Prerequisites:** Placement by ESL Chair or Reading Chair

**Prerequisites:** ESL 101 and ESL 102 unless waived by ESL or Reading Chair

Focus will be on improving pronunciation and fluency, especially when reading aloud. Activities include spelling and phonics instruction as well as speaking and reading exercises designed to increase reader's fluency and natural voice when reading. A grade of C or better is needed to move into the next ESL class, ESL 104. Emphasis will be on speaking although writing will be part of the class curriculum as well.

**SOCIOLOGY - SOC****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.

**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.

**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.

**SOC 201 Contemporary Social Issues (3)**

**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.

**SOC 210 Sociology of Health and Healthcare (3)**

**Prerequisites:** SOC 101

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.

**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.

**SOC 221 Sociology of Art (3)**

**Prerequisites:** SOC 101 and ENG 101

**Prerequisites:** ART 1001 or ART 1500 (recommended but not required)

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.

**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.

**SOC 241 Sociology Through Literature (3)**

**Prerequisites:** SOC 101 and ENG 101 with a passing grade or assess into ENG 102

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.

**SOC 290 Readings in Sociology (3)**

**Prerequisites:** SOC 101 and ENG 101 with a passing grade

Exploration of specific social phenomenon of music in society.

**SPANISH - SPN****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.

**SPN 102 Spanish Language and Culture II (4)**

**Prerequisites:** SPN 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 Spanish 101.

**SPN 190 Topics in Spanish Language and Culture II (1-3)**

**Prerequisites:** SPN 201 or Instructor permission

Exploration of special topics and/or activities in 100 level Spanish language and culture. Prerequisite and corequisite dependent on topic.

**SPN 195 Spanish Language and Civilization Experiences (1-9)**

Involves travel and/or study within Hispanic or Latin American culture area. May have prerequisites and may be repeated for credit.

**SPN 201 Spanish Language and Culture III (4)**

**Prerequisites:** SPN 102 or 1 1/2 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 audio-lingual practice outside of class.

**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.

**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.

**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.)

**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 Iberian Peninsula. Exercises and activities reinforce and develop Spanish language skills. (Taught in Spanish.)

**SPN 290 Topics in Intermediate Spanish Language and Culture (1-6)**

**Prerequisites:** Dependent on topic

**Corequisites:** Dependent on topic

Exploration of special topics in 200 level Spanish language and culture. Prerequisite and corequisite dependent on topic.

**THEATRE/FILM - THE****THE 115 Voice and Diction (3)**

**Prerequisites:** COM 101

Study of the development and understanding of respiration, phonation, resonance, articulation, and diction. Student may not receive credit for both COM 116 and THE 115.

**THE 122 Introduction to Theatre (3)**

Emphasizes appreciation of theatre as one of living arts. Surveys theatre history and dramatic theory from Greeks to present Broadway. Includes lectures, films and discussions on the practitioners and work. Requires attendance at live theatre productions.

**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.

**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.

**THE 126 Major Themes in Film (3)**

Focus on film theme. Among possibilities are genre films such as gangster film, the western film and the musical.

**THE 128 Acting I (3)**

Introduction to developing oral and physical communication through exercises, improvisation and scene work. Theories of acting introduced. Attendance at live theatre productions required.

**THE 140 Stagecraft (3)**

Introduction to basic fundamentals of stagecraft in scenery, lighting, costumes, and other areas of technical theatre. Emphasis on practical application, with expectation to participate in technical production of college plays.

**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.

**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.

**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.

**THE 210 Oral Interpretation (3)**

**Prerequisites:** COM 101

Basic study of the principles of oral interpretation and their application performance. Student may not receive credit for both COM 210 and THE 210.

**THE 220 Stage Makeup (3)**

An introduction to the complexities of stage makeup. Utilizing a hands-on approach, students will become familiar with basic makeup procedures and techniques and will apply the techniques through a series of projects.

**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 theatre production required.

**THE 229 History of American Musical Theatre I (3)**

Study of American musical theatre from its origins through Rodgers & Hammerstein. Students may not receive credit for both MUS 113 and THE 229.

**THE 230 History of American Musical Theatre II (3)**

Study of American musical theatre from Rodgers and Hammerstein to the present. Students may not receive credit for both MUS 114 and THE 230.

**THE 240 Introduction to Theatre Design (3)**

**Prerequisites:** THE 140

Introduction to theatre design in areas of scenery, lighting, and costume design. Exploration of fundamentals of design conception and communication through analysis, research, writing and project work.

**THE 259 Music Theatre Workshop I (1)**

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theatre. Students may not receive credit for both MUS 259 and THE 259.

**THE 260 Music Theatre Workshop II (1)**

Performance-oriented workshop experience that studies acting styles as applied to a song. Covers various styles and periods of musical theatre. Students may not receive credit for both MUS 260 and THE 260.

**THE 261 Introduction to Theatre Management (3)**

Examines the principles of theatre and other performing arts management as it relates to profit and non-profit entities. Emphasis will be placed on the practical and contemporary aspects of the field, including facility management, budgeting, programming, audience development, fundraising, marketing, staffing and leadership.

**THE 270 Acting Practicum (1-3)**

**Prerequisites:** THE 128 and instructor permission

Theories and techniques of acting and stagecraft applied in college productions.

**THE 271 Stagecraft Practicum I (1-3)**

**Prerequisites:** THE 140 and instructor permission

Practical application of technical theatre to college productions.

**THE 299 Topics in Theatre (1-3)**

This course will be offered on an as needed basis to accommodate special projects.

**WELDING - WLD****WLD 101 Introduction to Welding (3)**

**Corequisites:** WLD 111, WLD 121 and WLD 125

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.

**WLD 111 Thermal Cutting (2)**

**Corequisites:** WLD 101, WLD 121 and WLD 125

Learn to set up and perform straight square edge, shape square edge and straight bevel edge manual and mechanized oxyfuel gas cuts (OFC) and plasma arc cuts (PAC) on carbon steel, perform OFC scarfing and gouging operations on carbon steel, and inspect and repair equipment used in cutting operations.

**WLD 121 Shielded Metal Arc Welding I (4)**

**Corequisites:** WLD 101, WLD 111 and WLD 125

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.

**WLD 125 Welding Inspection and Testing (2)**

**Corequisites:** WLD 101, WLD 111 and 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.

**WLD 131 Gas Metal Arc Welding I (4)**

**Prerequisites:** WLD 101, WLD 111, WLD 121 and WLD 125

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.

**WLD 141 Flux Cored Arc Welding I (4)**

**Prerequisites:** WLD 101, WLD 111, WLD 121 and WLD 125

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.

**WLD 151 Gas Tungsten Arc Welding I (4)**

**Prerequisites:** WLD 101, WLD 111, WLD 121 and WLD 125

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 221 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.

**WLD 231 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.

**WLD 241 Flux Cored Arc Welding II (4)**

**Prerequisites:** WLD 141

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.

**WLD 251 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.

