Interdisciplinary Programs

The university offers a number of interdisciplinary programs and courses. These programs combine course offerings from several departments so the subject is examined from a multidisciplinary approach. While most persons who earn certificates do so in the process of completing their undergraduate degree, non-degree seeking students may complete a certificate. Below are descriptions of these interdisciplinary offerings:

- Bachelor of Liberal Studies degree
- Bachelor of Interdisciplinary Studies degree
- Interdisciplinary undergraduate certificates
- Interdisciplinary minors
- Interdisciplinary courses

Interdisciplinary certificates for international or areas studies are housed in the Center for International Studies.

Bachelor of Liberal Studies (BLS)

The Bachelor of Liberal Studies is a degree program that enables students to combine structured areas of academic emphasis in ways more relevant to their interests than the standard academic major.

Students who participate in this program must declare their areas of study (two minors or a minor and undergraduate certificate) at the time they declare that BLS is their intended degree. The plan of study must be approved at the beginning of the program.

The BLS program is administered through the Department of Philosophy.

To obtain a Bachelor of Liberal Studies (BLS), a student must complete:

- UMSL General Education Requirements (consult General Education [http://bulletin.umsl.edu/generaleducationrequirements] section of course listings)
- In addition, students must complete the State Requirement (3) and Cultural Diversity Requirement (3) if not met in General Education course selection
- The university requirement of proficiency in English Composition
  - ENGL 1100 - First Year Writing (to be completed in the first 24 credit hours at the university)
  - Junior Level Writing
- The university requirement of proficiency in Mathematics (to be completed in the first 24 credit hours at the university)
- Two emphasis areas that are satisfied by completing the requirements for:
  - two designated BLS Minors in participating departments or other units OR
  - a designated minor and any undergraduate certificate. No course may be used more than once.
  - A capstone course¹ (minimum of 3 hours) selected from one of the concentration areas that make up the identified BLS core.

Also Required

- Minimum of 45 credit hours in upper level course work (2000 or higher)
- Electives 28-42
- A minimum of 120 credit hours
- Overall GPA of 2.0 or better
- GPA of 2.0 or better in BLS combination areas (unless otherwise specified)
- Minimum grade of C in all courses used in BLS combination areas unless otherwise specified by the department
- Residency requirement, in addition to campus residency, unless otherwise specified, 9 graded hours in each minor and certificate at 2000 level or above and one capstone course

¹ Note: Not all minors have a designated BLS capstone course so students must be careful to pair minors and certificates so that they have a capstone course.

The Colleges of Arts and Sciences (CAS), Business Administration (COBA), College of Education (COE), the Pierre Laclede Honors College (PLHC), and the School of Social Work (SW) have joined together to make available Liberal Studies combinations involving the following units:

- Department of Anthropology and Archaeology (CAS)
- Department of Art and Design (CAS)
- Department of Biology (CAS)
- College of Business Administration (COBA)
- College of Education (COE)
- Department of Chemistry and Biochemistry (CAS)
- Department of Communication and Media (CAS)
- Department of Criminology and Criminal Justice (CAS)
- Department of Economics (CAS)
- Department of English (CAS)
- Department of History (CAS)
- Pierre Laclede Honors College (PLHC)
- Department of Language and Cultural Studies (CAS)
- Department of Mathematics and Computer Science (CAS)
- Department of Music (CAS)
- Department of Philosophy (CAS)
- Department of Physics and Astronomy (CAS)
- Department of Political Science (CAS)
- Department of Psychological Sciences (CAS)
- Department of Sociology, Gerontology and Gender Studies (CAS)
- Department of Theatre Arts (CAS)
- School of Social Work (SW)
- Undergraduate certificates

¹ Must be admitted to Honors program.

Bachelor of Liberal Studies: Capstone and Other Restrictions

1. Students who are planning to earn a Bachelor of Liberal Studies degree should declare the BLS as their major within the first 90 hours of the program. Declaration past this time may prevent timely graduation as all capstone courses are not available every semester.
2. The College of Nursing and the Joint Engineering Program are not participants in the BLS program.
3. The following Colleges/Departments participate in the BLS program but do not offer a capstone course and must be paired with a minor
from one of the areas listed below: Business, Studio Art, Theater Arts, Statistics, Undergraduate Certificates, and Interdisciplinary minors.

4. Students admitted to the Pierre Laclede Honors College who wish to present the Honors Certificate as a minor for the BLS must complete the Honors Capstone, (one or two credit hours) and also direct three to six hours of their Honors independent study requirement to work demonstrably relevant to their BLS program. Students should consult the BLS faculty advisor in the Honors College about this requirement.

5. The capstone is required in addition to the courses presented for the minor. A minimum grade of C must be earned in the capstone course. The capstone course is not counted toward the minor residency requirement.

6. Students choosing to combine the minor in History of Science and Technology with a minor in the Philosophy of Science and Technology may use the same course to satisfy the Logic and Methodology requirement for both minors and may select either PHIL 4491 or HIST 4999 as the capstone. However students selecting HIST 4999 must have also taken HIST 2999.

7. The following have identified a Capstone, so at least one of these minors must be included in the BLS program:

**Anthropology**
One additional 4000 level course in Anthropology not used in the minor. 3

**Art & Design**
One additional 4000 level topics course in Art History not used in the minor. 3

**Biology**
BIOL 4889 Senior Seminar 2

**Chemistry/Biochemistry**
3 total hours from the options listed: 3
CHEM 3022 Introduction to Chemical Literature
CHEM 3905 Chemical Research
CHEM 4897 Seminar

**Communication**
One additional 3000/4000 level Communication course not used in the minor. 3

**Criminology & Criminal Justice**
One additional 4000 level course in Criminology and Criminal Justice, not used as part of the minor. 3

**Economics**
One additional 4000 level Economics course (except ECON 4105, ECON 4160, and ECON 4550) not used in the minor. 3

**Education**
A 3 hour capstone course must be selected from the following:
ECH ED 4989 Practicum I: Early Childhood Education/Early Childhood Special Education Site Based Experience 3
EDUC 4989 Internship I 3
ELE ED 4989 Practicum I: Elementary/Special Education Site-Based Experience 3
ELE ED 4992 Practicum I: Elementary/Special Education/TESOL Site Based Experience 3

**English**
One additional 4000 level English Literature course not used in the minor. 3

**Gerontontology**
One additional 4000 level course in Gerontology not used in the minor and to be coordinated with the program director for Gerontology before starting the course. 3

**History**
HIST 4999 Senior Seminar 5

**Honors College**
1
3 total hours taken from the options listed:
HONORS 4100 Independent Portfolio Writing
HONORS 4900 Independent Study in Honors
or HONORS 4910 Independent Study: Internships

**Languages and Cultures**
FRENCH 3211 Contemporary French Culture 3
JAPAN 3280 Readings in Japanese 3
SPANISH 3210 Hispanic Culture And Civilization: Spain 3
or SPANISH 3211 Hispanic Culture And Civilization: Spanish America

**Mathematics/Computer Science**
Computer Science: One additional 4000 Level Course in Computer Science not used in the minor. 3
Mathematics: One additional 4000 Level Course in Mathematics not in the minor. 3

**Media Studies**
One additional 4000 level course not used in the minor. 3

**Music**
Select one of the following: 3
MHL T 4000 Directed Studies
THRY COM 4000 Directed Studies: Variable Topic
PDGOGY 4000 Directed Study: Variable Topic
PRACTM 4000 Directed Studies: Variable Topic

**Philosophy**
One additional 4000 level course not used in the minor. 3

**Physics**
PHYSICS 4381 Directed Readings in Physics 3

**Political Science**
POL SCI 3950 Senior Seminar in Political Science 3

**Psychology**
One additional 4000 level Psychology course not used in the minor. 3

**Sociology**
One additional 4000 level course in Sociology not used in the minor, excluding:
SOC 4350 Special Study
or SOC 4385 Internship in Sociology
Bachelor of Interdisciplinary Studies (BIS)

The Bachelor of Interdisciplinary Studies degree (B.I.S.) provides a flexible, individualized program of study for the self-directed learner. It is developed by each student with advisement by UMSL professional advisers and faculty, and it is intended for students who have unique educational goals that cannot be met by any other UMSL degree program.

Oversight of the B.I.S. degree is the responsibility of the Interdisciplinary Studies Committee, composed of faculty and professional staff, including representatives from Arts and Sciences (Humanities, Social Sciences, and Natural Sciences), Business, Education, Fine Arts and Communication, Nursing or other divisions. The Interdisciplinary Studies Committee will be convened and supported by the Office of the Provost.

Admission Requirements for the B.I.S. Program

Candidates for the B.I.S. degree must complete an application for admission to the program. The Interdisciplinary Studies Committee approves applications.

Approved programs of study are well-designed, coherent, structured to meet the student’s unique educational goals, and not readily available under any other UMSL degree program.

Students must have demonstrated the equivalent of academic proficiency required for any other undergraduate degree at UMSL.

Degree Requirements for the B.I.S. Program

General Education Requirements

Students must complete the university’s general education requirements. For details refer to the general education requirements (http://bulletin.umsl.edu/generaleducationrequirements) section of this Bulletin.

Area of Study

In consultation with faculty and staff advisers, students will carry out an area of study of at least 36 advanced semester hours of graded credit that meets their educational goals. Graded credit consists of grade credit courses in which the student received a letter grade C- or better. The area of study must include at least nine hours at the 3000-level or above; these courses may be in one or more disciplines.

Hour and Grade Requirements

The degree requires completion of 120 semester hours with a 2.0 campus grade point average overall and in the area of study. No more than 15 hours may be taken in one department. At least 45 hours must be earned in courses beyond the introductory level. A minimum of 24 hours of graded credit must be completed in residence at UMSL, of which 15 hours must be in the area of study and completed after admission to the B.I.S. program. Each candidate must be in residence for 24 of the last 30 hours of graded credit (exclusive of courses taken on a satisfactory/unsatisfactory basis).

Supervised Professional or Service Internship and Independent Research

Credit not exceeding 6 hours may be earned for department-approved professional internship, service internship, or independent research. The projects or activities must be formulated by the student and carried out under the supervision of a faculty member with the approval of the adviser.

Students must submit a written report approved by the supervisor upon completion of the projects or activities.

Interdisciplinary Certificates

Undergraduate Certificate in Child Advocacy Studies

The undergraduate Certificate Program in Child Advocacy Studies (CAST) is an interdisciplinary program requiring 19 credits of training in Child Advocacy Studies. The CAST certificate encompasses a group of courses focused on children, youth, and traumatic stress capped by a field experience. The CAST certificate is appropriate for students who want to specialize in working in a variety of professional settings with children and adolescents, many of whom may have experienced trauma.

Most courses required by the Certificate Program in Child Advocacy Studies have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for satisfying the prerequisites. All students must take at least one course outside their home department. All required courses must be taken in residence at UM-St. Louis.

Required courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH/SOC WK/CAST 4398</td>
<td>Child Maltreatment: A Multidisciplinary Approach</td>
<td>3</td>
</tr>
<tr>
<td>CAST 4498</td>
<td>Forensic Investigation of Child Abuse</td>
<td>3</td>
</tr>
<tr>
<td>CAST 4598</td>
<td>Child Abuse Assessment and Intervention</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives 6

Please choose two of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNS ED 4310</td>
<td>Human Relations Skills</td>
</tr>
<tr>
<td>CRIMIN 2226/CRIMIN 2225</td>
<td>Law, Politics and Society</td>
</tr>
<tr>
<td>POL SCI 2260</td>
<td>Youth Gangs</td>
</tr>
<tr>
<td>CRIMIN 3230</td>
<td>Crime Prevention</td>
</tr>
<tr>
<td>CRIMIN 3270</td>
<td>Juvenile Justice And Delinquency</td>
</tr>
<tr>
<td>CRIMIN/GS 4330</td>
<td>Violence Against Women</td>
</tr>
<tr>
<td>CRIMIN 4350</td>
<td>Victimization</td>
</tr>
<tr>
<td>ECH ED 3350</td>
<td>Family and Professional Partnerships</td>
</tr>
<tr>
<td>ED PSY 2212</td>
<td>Child and Adolescent Development</td>
</tr>
<tr>
<td>ED PSY 3312</td>
<td>Psychology of Learning, Instruction, and Assessment</td>
</tr>
<tr>
<td>GS 2102</td>
<td>Introduction To Gender Studies</td>
</tr>
<tr>
<td>GS/SOC 2224</td>
<td>Marriage And The Family</td>
</tr>
<tr>
<td>GS/SOC 3250</td>
<td>Sociology Of Victimization</td>
</tr>
<tr>
<td>GS/SOC WK 4610</td>
<td>Intimate Partner Violence</td>
</tr>
<tr>
<td>PSYCH 2200</td>
<td>Drugs And Behavior</td>
</tr>
<tr>
<td>PSYCH/GS 2232</td>
<td>Psychology Of Trauma</td>
</tr>
<tr>
<td>PSYCH 2270</td>
<td>Developmental Psychology: Infancy, Childhood And Adolescence</td>
</tr>
<tr>
<td>PSYCH/CAST 3290</td>
<td>Traumatic Stress in Childhood and Adolescence</td>
</tr>
<tr>
<td>PSYCH 3340</td>
<td>Clinical Problems Of Childhood</td>
</tr>
<tr>
<td>PSYCH 4305</td>
<td>Developmental Psychology: Cognitive Development of Children</td>
</tr>
<tr>
<td>SOC 2201</td>
<td>Deviance and Society</td>
</tr>
</tbody>
</table>

1 Must be admitted to Honors program.
One elective must be in Computer Science.

All students must take three required courses and three electives (at least one elective must be in Computer Science).

**Requirements**

All students must take three required courses and three electives (at least one elective must be in Computer Science).

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFSYS 3848</td>
<td>Introduction to Information Security</td>
<td>3</td>
</tr>
<tr>
<td>CMP SCI 4730</td>
<td>Computer Networks and Communications</td>
<td>3</td>
</tr>
<tr>
<td>or INFSYS 3842</td>
<td>Data Networks and Security</td>
<td></td>
</tr>
<tr>
<td>CMP SCI 4782</td>
<td>Information Security</td>
<td>3</td>
</tr>
<tr>
<td>or INFSYS 3858</td>
<td>Advanced Security and Information Systems</td>
<td></td>
</tr>
</tbody>
</table>

**Electives**

Choose three of the following (at least one must be a CMP SCI course):

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMP SCI 4020</td>
<td>Introduction to Android Apps: Android Fundamentals</td>
<td></td>
</tr>
<tr>
<td>CMP SCI 4222</td>
<td>iOS Apps</td>
<td></td>
</tr>
<tr>
<td>CMP SCI 4700</td>
<td>Computer Forensics</td>
<td></td>
</tr>
<tr>
<td>CMP SCI 4750</td>
<td>Introduction to Cloud Computing</td>
<td></td>
</tr>
<tr>
<td>CMP SCI 4780</td>
<td>Computer and Network Security</td>
<td></td>
</tr>
<tr>
<td>INFSYS 3868</td>
<td>Secure Software Development</td>
<td></td>
</tr>
<tr>
<td>INFSYS 3878</td>
<td>Information Security Risk Management and Business Continuity</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**

Students may substitute the above courses with other courses upon approval by the program advisor in either the Computer Science or Information Systems department. In all cases, 18 hours are needed to complete the Undergraduate Certificate in Cybersecurity. A minimum of four courses must be taken in residence at UMSL. Students may not receive both the Undergraduate and the Graduate Certificate in Cybersecurity.

For more information, students can contact the program directors at cybersecurityUMSL@umsl.edu.

**Evolutionary Studies Certificate**

The undergraduate certificate program in evolutionary studies is designed to provide a unifying perspective on the diverse subject areas of a liberal arts education. Evolutionary biology provides a link between the sciences, the social sciences, and the humanities. The core of the program is BIOL 1999, “Evolution for Everyone,” a course on evolution for students who are not majors in biology. (Biology majors who participate in the EvoS program must take BIOL 3302 instead.) In this course, students are introduced to the history of evolutionary thinking, the basic mechanisms of evolution, and the evolution of complex behaviors. In addition to this one required course, to obtain a certificate students must fulfill twenty credits from the list of courses designated below.

No more than eight hours can be taken at the freshman level, and at least eight hours must be taken at the junior-senior level (3000 level or above).

Courses taken for the certificate in the lower division can satisfy general education requirements (that is, breadth requirements). Courses in the upper division can satisfy requirements for the student’s major.

**Courses in the Physical and Life Sciences**

**Physics and Astronomy**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTRON 1011</td>
<td>Planets And Life In The Universe</td>
<td>3</td>
</tr>
</tbody>
</table>

**Biology**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1202</td>
<td>Environmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 1821</td>
<td>Introductory Biology: Organisms And The Environment</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 1999</td>
<td>Evolution for Everyone (Required Core Course)</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2102</td>
<td>General Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2112</td>
<td>Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2402</td>
<td>Vertebrate Anatomy, Evolution and Ecology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2501</td>
<td>Biology Of Plants</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 3102</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>

A field experience in a child-related field, approved and supervised by the student’s home department, is the final part of the certificate. All required CAST courses should be completed, though concurrent enrollment in one CAST course is permitted. Additionally, students must receive prior approval from the CAST program director.

**Field Experience Options**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAST 4700</td>
<td>Field Education Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

SOC 4312 Sociology Of Wealth And Poverty
SOC 4356 Sociology Of Education
SOC WK 4110 Social Work Practice with Individuals, Families, and Groups
SOC WK 4601 Abused And Neglected Children
SOC WK 4620 Substance-Related and Addictive Disorders
SOC WK 4645 Social Work in Mental Health

**Seminar**

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<tbody>
<tr>
<td>CAST 4698</td>
<td>Internship In Child Advocacy Studies</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 3280</td>
<td>Internship In Criminology And Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>EDUC 4989</td>
<td>Internship I</td>
<td></td>
</tr>
<tr>
<td>GS 4353</td>
<td>Internship In Gender Studies</td>
<td></td>
</tr>
<tr>
<td>SOC 4385</td>
<td>Internship In Sociology</td>
<td></td>
</tr>
<tr>
<td>SOC WK 4800/4850</td>
<td>Supervised Field Experience In Social Work I</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours**

Required course, to obtain a certificate students must fulfill twenty credits from the list of courses designated below.

No more than eight hours can be taken at the freshman level, and at least eight hours must be taken at the junior-senior level (3000 level or above).

Courses taken for the certificate in the lower division can satisfy general education requirements (that is, breadth requirements). Courses in the upper division can satisfy requirements for the student’s major.

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</tr>
<tr>
<td>BIOL 3102</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
</tbody>
</table>
Courses in the Social Sciences

Anthropology
ANTHRO 1005 Introduction To Biological Anthropology 4
ANTHRO 2105 Human Variation 3

Psychology
PSYCH 1003 General Psychology 3
PSYCH 2200 Drugs And Behavior 3
PSYCH 2205 Human Sexuality: Psychological Perspectives 3
PSYCH 2211 Introduction To Biological Psychology 3
PSYCH 3205 Evolutionary Psychology 3
PSYCH 3390 Directed Studies 1-6
PSYCH 3500 Health Psychology 3
PSYCH 4300 Introduction To Psychopharmacology: Drugs And Mental Illness 3
PSYCH 4311 Psychology Of Nonverbal Behavior 3
PSYCH 4330 Hormones, The Brain And Behavior 3
PSYCH 4349 Human Learning And Memory 3
PSYCH 4356 Cognitive Processes 3
PSYCH 3400 Conceptual and Historical Foundations of Psychology 3
PSYCH 4374 Introduction To Clinical Neuropsychology 3

Courses in the Humanities

English
ENGL 4030 Contemporary Critical Theory 3
ENGL 4080 Narrative, Cognition, And Emotion 3

Philosophy
PHIL 2280 Minds, Brains, And Machines 3
PHIL 2281 Darwinism and the Philosophy of Biology 3

Honors College Courses

See Honors College Courses below

Honors College Courses

The Honors College will offer seminars as part of the Evolutionary Studies certificate or minor, and they will be identified as such before the opening of registration periods. EvoS seminars in honors will be open to non-Honors College students with at least a 3.0 GPA (students must obtain permission numbers from the Honors College). Please note that all honors college course numbers (e.g.) relate to generic course titles (e.g. “Inquiries in the Humanities”), and so it is very important to register for the section number with the proper Evolutionary Studies seminar title. Where these honors college courses are cross-listed (e.g. with English xxxx or Philosophy yyyy), non-honors college students should take them under their departmental number.

History and Philosophy of Science and Technology Certificate

The undergraduate Certificate Program in History and Philosophy of Science and Technology (HPST) is an interdisciplinary program requiring a minimum of 18 credits in HPST.

All required courses must be completed with a “C-” or higher. The satisfactory/unsatisfactory option may not be used towards the HPST Certificate. A minimum of 12 hours must be taken at 2000 and above with 9 of those hours being at 3000 or above. Courses in the upper division (3000 level and above) may satisfy requirements for the student’s major, consistently with the major’s requirements.

Requirements

1. History:
   Select two of the following courses in History and Technology:

   History:
   - ECON 3800 History Of Economic Thought
   - HIST 2089 Religion, Philosophy & Science in History: Introduction to The Intellectual History Of The West
   - HIST 2770 Introduction To Transportation
   - HIST 2772 History Of Aviation In American Life
   - HIST 2773 Urbanization And Transportation
   - HIST 4143 Inquiries in World History
   - PHIL 4483 Topics In History And Philosophy Of Science
   - PSYCH 3400 Conceptual and Historical Foundations of Psychology

   Total Hours 6

2. Philosophy:
   Select one of the following in the philosophy of science:

   Philosophy:
   - PHIL 3380 Philosophy Of Science 3
   - PHIL 2280 Minds, Brains, And Machines
   - PHIL 2281 Darwinism and the Philosophy of Biology
   - PHIL 2282 Philosophy of Science in Historical Perspective
   - PHIL 3380 Philosophy Of Science
   - PHIL 4452 Feminism And Science
   - PHIL 4479 Philosophy Of Cognitive Science
   - PHIL 4480 Topics In Philosophy Of Science
   - PHIL 4482 Philosophy Of Social Science
   - PHIL 4483 Topics In History And Philosophy Of Science
   - PSYCH 3400 Conceptual and Historical Foundations of Psychology

   Total Hours 6

3. Science: Two courses in the mathematical, physical, life, behavioral, or social sciences. The science courses must be in addition to those satisfying the Gen Ed requirements (for students pursuing a degree
at UM St. Louis) and conditional upon their acceptance by the HPST Certificate Undergraduate advisor (6 credit hours).

Prerequisites
Some courses required by the Certificate Program in HPST have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for either satisfying the prerequisites by adding courses to their curriculum or obtaining a waiver from the instructor.

Alternative courses to satisfy the History and Philosophy requirements:

Some courses may satisfy either the History or the Philosophy requirement even though they are not listed as such, depending on what their content is. These include but are not listed among those satisfying the requirements, you may do the following:

• Obtain the description of what the course will cover.
• Write a very short explanation of why the course ought to count toward satisfaction of the requirement, by showing how it deals with the relevant aspect of HPST.

Submit both to the HPST undergraduate advisor for approval.

Labor Studies Certificate
The Labor Studies Certificate is designed for students who are interested in a focused specialty in labor studies. The 18 credit hour curriculum consists of six credit courses offered over a three-semester period.

HIST 2219 United States Labor History 3
ECON 3450 Labor in the Global Political Economy 3
POL SCI 1450 Introduction To Labor Studies 3
POL SCI 3220 Labor Law 3
POL SCI 3430 Union Leadership And Administration 3

Total Hours 15

Certificate in Neuroscience
The undergraduate Certificate Program in Neuroscience is an interdisciplinary program requiring 20 credits of training in Neuroscience. The Program provides a group of related courses capped by a research experience. The Program is likely to be of particular interest to students who want to pursue graduate or professional training, but it is intended to appeal to any student interested in Neuroscience.

Courses taken for the certificate in the lower division (1000 and 2000 level) may satisfy general education requirements (that is, breadth requirements), if they are approved general education courses. Courses in the upper division (3000 level and above) may satisfy requirements for the student’s major, consistently with the major’s requirements. All required courses must be completed with a “B-” average or higher. Pass/Fail grades to not count.

Most courses required by the Certificate Program in Neuroscience have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for satisfying the prerequisites.

Requirements
The two entry level courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 1831</td>
<td>Introductory Biology: From Molecules To Organisms</td>
<td>5</td>
</tr>
<tr>
<td>or BIOL 1012</td>
<td>General Biology</td>
<td></td>
</tr>
<tr>
<td>or BIOL 1102</td>
<td>Human Biology</td>
<td></td>
</tr>
<tr>
<td>PSYCH 2211</td>
<td>Introduction To Biological Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following statistics courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 4122</td>
<td>Biometry</td>
</tr>
<tr>
<td>MATH 1320</td>
<td>Applied Statistics I</td>
</tr>
<tr>
<td>PSYCH 2201</td>
<td>Psychological Statistics</td>
</tr>
<tr>
<td>SOC 3220</td>
<td>Social Statistics</td>
</tr>
</tbody>
</table>

Electives
Select two of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 3102</td>
<td>Animal Behavior</td>
</tr>
<tr>
<td>BIOL 4822</td>
<td>Introduction To Neuroscience</td>
</tr>
<tr>
<td>CHEM 4712</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>CMP SCI 4300</td>
<td>Introduction To Artificial Intelligence</td>
</tr>
<tr>
<td>CMP SCI 4340</td>
<td>Introduction to Machine Learning</td>
</tr>
<tr>
<td>PHIL 2280</td>
<td>Minds, Brains, And Machines</td>
</tr>
<tr>
<td>PHIL 3378</td>
<td>Philosophy of Mind</td>
</tr>
<tr>
<td>PHIL 4478</td>
<td>Topics In Philosophy Of Mind</td>
</tr>
<tr>
<td>PHIL 4479</td>
<td>Philosophy Of Cognitive Science</td>
</tr>
<tr>
<td>PHYSICS 4347</td>
<td>Biophysics Of Imaging</td>
</tr>
<tr>
<td>PSYCH 4300</td>
<td>Introduction To Psychopharmacology: Drugs And Mental Illness</td>
</tr>
<tr>
<td>PSYCH 4314</td>
<td>Behavioral Neuroscience</td>
</tr>
<tr>
<td>PSYCH 4330</td>
<td>Hormones, The Brain And Behavior</td>
</tr>
<tr>
<td>PSYCH 4349</td>
<td>Human Learning And Memory</td>
</tr>
<tr>
<td>PSYCH 4356</td>
<td>Cognitive Processes</td>
</tr>
<tr>
<td>PSYCH 4372</td>
<td>Introduction to Social Neuroscience</td>
</tr>
</tbody>
</table>

Select at least 3 credits from one or more semesters of research experience

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>BIOL 4905</td>
<td>Research</td>
</tr>
<tr>
<td>CHEM 3905</td>
<td>Chemical Research</td>
</tr>
<tr>
<td>CMP SCI 4880</td>
<td>Individual Studies</td>
</tr>
<tr>
<td>PHIL 4450</td>
<td>Special Readings In Philosophy</td>
</tr>
<tr>
<td>PHYSICS 3390</td>
<td>Research</td>
</tr>
<tr>
<td>PSYCH 3390</td>
<td>Directed Studies</td>
</tr>
</tbody>
</table>

Total Hours 20

1 BIOL 1831 is strongly recommended, especially for those considering taking BIOL 4822 Introduction to Neurosciences towards their Neuroscience Certificate (BIOL 1831 is a prerequisite for BIOL 4822).
2 At least one elective must be taken outside the student’s major
3 This requires completion of a Directed Research Assistantship with a Neuroscience faculty member within any of the participating departments. The research project must be approved in advance by the undergraduate advisor with the assistance of a committee of Neuroscience faculty. It is expected that this research will lead to a presentation of the research (e.g., at the UM-St. Louis Neuroscience seminar or the Undergraduate Research Symposium).
**Studies in Religions Certificate**

A certificate in studies in religions requires the completion of 18 hours with a grade of C or better.

Courses must be chosen from two or more departments (interdisciplinary offerings excluded), and the program must include two or more courses that focus on different major religious traditions. (Courses that fulfill this requirement are marked with an asterisk [*] in the list below.)

In addition, students are encouraged to broaden their understanding of religions and religious experience by enrolling in several courses in which these subjects are studied in philosophical or cultural contexts.

Students must obtain the approval of the coordinator of studies in religions before completing 12 hours toward this certificate.

**Requirements**

Select 6 of the following list in accordance with the guidelines above:

<table>
<thead>
<tr>
<th>Anthropology</th>
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<tbody>
<tr>
<td>ANTHRO 2173</td>
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<td>ART HS 2225</td>
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<table>
<thead>
<tr>
<th>English</th>
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<tbody>
<tr>
<td>ENGL 2240</td>
</tr>
<tr>
<td>ENGL 2250</td>
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<tr>
<td>ENGL 4950</td>
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<table>
<thead>
<tr>
<th>History</th>
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<tbody>
<tr>
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<td>HIST 2083</td>
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<td>HIST 2089</td>
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<table>
<thead>
<tr>
<th>Philosophy</th>
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<tbody>
<tr>
<td>PHIL 1120</td>
</tr>
<tr>
<td>PHIL 1185</td>
</tr>
<tr>
<td>PHIL 3302</td>
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<table>
<thead>
<tr>
<th>Political Science</th>
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<tbody>
<tr>
<td>POL SCI 2610</td>
</tr>
<tr>
<td>POL SCI 2650</td>
</tr>
</tbody>
</table>

Total Hours 18

1. Note: ENGL 4950 should only be taken when Religious Literature is the topic.

2. Topic in HIST 2000 must be a religious topic.

**Trauma Studies Certificate**

The trauma studies certificate is designed for students who are interested in a focused specialty in trauma studies or victim services in addition to their own major. It is appropriate for students in the College of Arts and Sciences or any of the schools of the university. It is particularly appropriate for students wishing to pursue careers in psychology, social work, sociology, criminology, law, public health, or nursing.

**Requirements**

A student may earn a trauma studies certificate by completing 18 hours with a GPA of 2.0 or better from at least three departments from the following courses:

Select at least three of the following:

<table>
<thead>
<tr>
<th>Criminology and Criminal Justice</th>
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</thead>
<tbody>
<tr>
<td>CRIMIN 1120</td>
</tr>
<tr>
<td>CRIMIN 4300</td>
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<tr>
<td>CRIMIN 4350</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH 2232</td>
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<tr>
<td>PSYCH 3390</td>
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<table>
<thead>
<tr>
<th>Social Work</th>
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<tbody>
<tr>
<td>SOC WK 3100</td>
</tr>
<tr>
<td>SOC WK 4601</td>
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<td>SOC WK 4602</td>
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<table>
<thead>
<tr>
<th>Sociology</th>
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<tr>
<td>SOC 3250</td>
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Select up to two of the following:

<table>
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<tr>
<th>Criminology and Criminal Justice</th>
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</thead>
<tbody>
<tr>
<td>CRIMIN 3230</td>
</tr>
<tr>
<td>CRIMIN 2240</td>
</tr>
<tr>
<td>CRIMIN/SOC 4340</td>
</tr>
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<table>
<thead>
<tr>
<th>Political Science</th>
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<tbody>
<tr>
<td>POL SCI 2400</td>
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<td>POL SCI 2420</td>
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<table>
<thead>
<tr>
<th>Psychology</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH/SOC 2160</td>
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<tr>
<td>PSYCH 2230</td>
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<tr>
<td>PSYCH 2245</td>
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<table>
<thead>
<tr>
<th>Social Work</th>
</tr>
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<tbody>
<tr>
<td>SOC WK 4630</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sociology</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 2102</td>
</tr>
<tr>
<td>SOC/PSYCH 2160</td>
</tr>
<tr>
<td>SOC 3268</td>
</tr>
<tr>
<td>SOC/CRIMIN 4340</td>
</tr>
</tbody>
</table>

Total Hours 18

1. Please seek approval of the Coordinator of the Trauma Studies Certificate in advance.

Special Topics courses relevant to trauma studies may be included in the certificate when approved in advance by the coordinator of the trauma studies certificate.
**Interdisciplinary Minors**

**Minor in American Studies**

American Studies involves an interdisciplinary approach to the study of the history, cultures, politics, and economy of the United States, its colonial antecedents, and its indigenous peoples. At UMSL, the minor enables students also to study the city and region of St. Louis, a quintessentially American city.

Students interested in this minor should contact the coordinator of American Studies for advice and information.

There are 18 hours required in the minor, and in completing these hours candidates must take courses from at least three disciplines. Candidates must have a cumulative grade point average of 2.0 or better in the minor. Three hours of the minor may be taken on a satisfactory/unsatisfactory basis, and a maximum of nine hours will be accepted in transfer. Candidates wishing to take American Studies courses in the Honors College do not need to be members of the Honors College but must register for the courses via the Honors College.

**Requirements for the Minor.**

Completion of the American Studies Minor requires at least 18 credit hours (6 courses) including an interdisciplinary introductory course. Of the remaining 15 hours, at least six hours must be taken from a small group of core courses designed to give students a foundation for further study and at least six hours from a larger group of elective courses which will broaden students' experience or enable them to specialize in specific areas. At least six hours must be taken from advanced level (3000 and 4000) undergraduate courses. Students are recommended to include in this advanced work an American Studies “capstone”, an option that may be fulfilled in several ways, which are described below.

**Introductory Course**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2160</td>
<td>Introduction to American Studies (must be taken in first 12 hours of the minor)</td>
</tr>
</tbody>
</table>

**Core Courses**

Choose at least one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 2710</td>
<td>American Literature Before 1865</td>
</tr>
<tr>
<td>ENGL 2720</td>
<td>American Literature After 1865</td>
</tr>
</tbody>
</table>

Choose at least one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 1001</td>
<td>American Civilization To 1865</td>
</tr>
<tr>
<td>HIST 1002</td>
<td>American Civilization 1865 To Present</td>
</tr>
<tr>
<td>POL SCI 1100</td>
<td>Introduction To American Politics</td>
</tr>
<tr>
<td>HONORS 1230</td>
<td>American Traditions: Social And Behavioral Sciences</td>
</tr>
</tbody>
</table>

**Elective Courses**

Choose at least two courses from the following American Studies electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 1710</td>
<td>Native American Literature</td>
</tr>
<tr>
<td>ANTHRO 2120</td>
<td>Native Peoples Of North America</td>
</tr>
<tr>
<td>ANTHRO 2121</td>
<td>Native American Spirituality</td>
</tr>
<tr>
<td>ANTHRO 2139</td>
<td>Shamans, Serpents, and Spirits: Archaeology of the Borderlands</td>
</tr>
<tr>
<td>ART HS 1104</td>
<td>Indigenous Arts Of North America</td>
</tr>
<tr>
<td>ART HS 2270</td>
<td>American Art To 1876</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRIMIN 1100</td>
<td>Introduction To Criminology And Criminal Justice</td>
</tr>
<tr>
<td>CRIMIN 1120</td>
<td>Criminal Law</td>
</tr>
<tr>
<td>CRIMIN 1150</td>
<td>Violence In America</td>
</tr>
<tr>
<td>CRIMIN 4300</td>
<td>Communities And Crime</td>
</tr>
<tr>
<td>CRIMIN 4325</td>
<td>Gender, Crime, And Justice</td>
</tr>
<tr>
<td>CRIMIN 4340</td>
<td>Race, Crime, And Justice</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ECON 2200</td>
<td>Monetary Policy in Historical Perspective</td>
</tr>
<tr>
<td>ECON 2800</td>
<td>History Of American Economic Development</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 4610</td>
<td>Selected Major American Writers I</td>
</tr>
<tr>
<td>ENGL 4620</td>
<td>Selected Major American Writers II</td>
</tr>
<tr>
<td>ENGL 4640</td>
<td>American Fiction To World War I</td>
</tr>
<tr>
<td>ENGL 4650</td>
<td>Modern American Fiction</td>
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<table>
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<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>HIST 1004</td>
<td>The History Of Women In The United States</td>
</tr>
<tr>
<td>HIST 2005</td>
<td>The Modernization Of The United States</td>
</tr>
<tr>
<td>HIST 2008</td>
<td>History Of St. Louis</td>
</tr>
<tr>
<td>HIST 2015</td>
<td>Topics In African-American History</td>
</tr>
<tr>
<td>HIST 2028</td>
<td>Sex, Drugs, and Rock 'n Roll: The 1960s in Song, Fashion, Dating, and Protest</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>GS 2020</td>
<td>History of Women and Social Movements</td>
</tr>
<tr>
<td>GS 2380</td>
<td>Politics of Gender in the United States</td>
</tr>
<tr>
<td>GS 3031</td>
<td>History Of Women In The United States</td>
</tr>
<tr>
<td>GS 3700</td>
<td>Diversity And Social Justice</td>
</tr>
<tr>
<td>GS 4335</td>
<td>Gender and Body Image in Media and Culture</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HONORS 2010</td>
<td>Inquiries In The Humanities (topic must be approved by American Studies coordinator)</td>
</tr>
<tr>
<td>HONORS 2030</td>
<td>Inquiries In The Social And Behavioral Sciences (topic must be approved by American Studies coordinator)</td>
</tr>
<tr>
<td>HONORS 3010</td>
<td>Advanced Honors Seminar In The Humanities (topic must be approved by American Studies coordinator)</td>
</tr>
<tr>
<td>HONORS 3030</td>
<td>Advanced Honors Seminar In The Social And Behavioral Sciences (topic must be approved by American Studies coordinator)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MVS 2100</td>
<td>Veterans in America</td>
</tr>
<tr>
<td>MVS 2130</td>
<td>Gender and the Military</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ART HS 2279</td>
<td>American Architecture</td>
</tr>
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<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ART HS 2272</td>
<td>American Art Since 1876</td>
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<td>English</td>
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<td>English</td>
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<tr>
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<tr>
<td>Gender Studies</td>
<td>GS 2020</td>
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<tr>
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<tbody>
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<table>
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<tbody>
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<td>American Architecture</td>
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<table>
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<tr>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART HS 2272</td>
<td>American Art Since 1876</td>
</tr>
</tbody>
</table>
Student considering other elective choices must work with the American Studies faculty coordinator to obtain approval to apply these courses to the minor.

Capstone options:

Students are encouraged to complete a capstone for the American Studies minor. A capstone course can satisfy three credit hours of the 18 hour minor. Experiences that could serve as a capstone include appropriate departmental capstone courses, independent studies, research projects, and internships. Interested students should work with the coordinator of American Studies to have a capstone course approved.

**Minor in Child Advocacy Studies**

The undergraduate minor in Child Advocacy Studies (CAST) is an interdisciplinary program requiring 15 credits of training in Child Advocacy Studies. The CAST minor encompasses a group of courses focused on children, youth, and traumatic stress. The CAST minor is appropriate for students who want to explore working in a variety of professional settings with children and adolescents, many of whom may have experienced trauma.

Most courses required by the minor in Child Advocacy Studies have prerequisites. Some students may satisfy prerequisites by virtue of their prior curriculum. When this is not the case, students are responsible for satisfying the prerequisites. All required courses must be taken in residence at UM-St. Louis.

**Required courses:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYCH/CAST 3290</td>
<td>Traumatic Stress in Childhood and Adolescence</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH/SOC WK/CAST 4398</td>
<td>Child Maltreatment: A Multidisciplinary Approach</td>
<td>3</td>
</tr>
<tr>
<td>CAST 4498</td>
<td>Forensic Investigation of Child Abuse</td>
<td>3</td>
</tr>
<tr>
<td>or CAST 4598</td>
<td>Child Abuse Assessment and Intervention</td>
<td></td>
</tr>
</tbody>
</table>

| Electives | 6 |

**Please choose two of the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAST 4498</td>
<td>Forensic Investigation of Child Abuse (if course not used above)</td>
<td></td>
</tr>
<tr>
<td>CAST 4598</td>
<td>Child Abuse Assessment and Intervention (if course not used above)</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 2226/POL SCI 2260</td>
<td>Law, Politics and Society</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 2251</td>
<td>Youth Gangs</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 3230</td>
<td>Crime Prevention</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 3270</td>
<td>Juvenile Justice And Delinquency</td>
<td></td>
</tr>
<tr>
<td>CRIMIN/GS 4330</td>
<td>Violence Against Women</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 4350</td>
<td>Victimization</td>
<td></td>
</tr>
<tr>
<td>CNS ED 4310</td>
<td>Human Relations Skills</td>
<td></td>
</tr>
<tr>
<td>ED PSY 3312</td>
<td>Psychology of Learning, Instruction, and Assessment</td>
<td></td>
</tr>
<tr>
<td>ECH ED 3350</td>
<td>Child/Family and Education and Community Involvement</td>
<td></td>
</tr>
<tr>
<td>GS 2102</td>
<td>Introduction To Gender Studies</td>
<td></td>
</tr>
<tr>
<td>GS/SOC 2224</td>
<td>Marriage And The Family</td>
<td></td>
</tr>
<tr>
<td>GS/SOC 3250</td>
<td>Sociology Of Victimization</td>
<td></td>
</tr>
<tr>
<td>GS/SOC WK 4610</td>
<td>Domestic Violence: Theory, Problems, And Practice</td>
<td></td>
</tr>
<tr>
<td>PSYCH 2200</td>
<td>Drugs And Behavior</td>
<td></td>
</tr>
<tr>
<td>PSYCH/GS 2232</td>
<td>Psychology Of Trauma</td>
<td></td>
</tr>
<tr>
<td>PSYCH 2270</td>
<td>Developmental Psychology: Infancy, Childhood And Adolescence</td>
<td></td>
</tr>
<tr>
<td>PSYCH 3340</td>
<td>Clinical Problems Of Childhood</td>
<td></td>
</tr>
<tr>
<td>PSYCH 4305</td>
<td>Developmental Psychology: Cognitive Development of Children</td>
<td></td>
</tr>
<tr>
<td>SOC 2201</td>
<td>Deviance and Society</td>
<td></td>
</tr>
<tr>
<td>SOC 4312</td>
<td>Sociology Of Wealth And Poverty</td>
<td></td>
</tr>
<tr>
<td>SOC 4356</td>
<td>Sociology Of Education</td>
<td></td>
</tr>
<tr>
<td>SOC WK 4110</td>
<td>Social Work Practice with Individuals, Families, and Groups</td>
<td></td>
</tr>
<tr>
<td>SOC WK 4601</td>
<td>Abused And Neglected Children</td>
<td></td>
</tr>
<tr>
<td>SOC WK 4620</td>
<td>Addictions: Assessment And Intervention In Social Work Practice</td>
<td></td>
</tr>
<tr>
<td>SOC WK 4645</td>
<td>Social Work in Mental Health</td>
<td></td>
</tr>
</tbody>
</table>

**Total Hours** 15

1 Course pending faculty senate approval
Minor in Classical Studies

The minor in Classical Studies is an interdisciplinary course of studies intended to encourage undergraduates in various disciplines to come to a fuller awareness of the cultures of ancient Greece and Rome and of the classical tradition that underlies much of modern Western civilization. In addition to appealing to any student's curiosity about the early stages of society in the West, the minor provides an especially valuable supplement to those who are majoring in many liberal arts areas including history, literature, philosophy, foreign languages, and art.

Students pursuing the minor will acquire a foundation in either Greek or Latin. They may choose to use either sequence to fulfill the foreign language requirement in the College of Arts and Sciences.

Requirements

Candidates for the minor must complete 19 credit hours of course work including:

- LATIN 1001 Latin I
- LATIN 1002 and Latin II
- or GRK ANC 1001 Ancient Greek I
- or GRK ANC 1002 and Ancient Greek II

Select three of the following:

- ART HS 2211 Art And Archaeology Of The Ancient World
- ART HS 2212 Greek Art And Archaeology
- ART HS 2213 Roman Art & Archaeology
- ART HS 4411 Topics In Ancient Art And Archaeology
- GRK ANC 2101 Intermediate Ancient Greek Language And Culture
- HIST 2081 Rome: The Republic And Empire
- LATIN 2101 Intermediate Latin Language And Culture
- PHIL 3301 Ancient Philosophy
- PHIL 4401 Plato
- PHIL 4402 Aristotle
- Any other course approved by the coordinator

Total Hours: 22

Minor in Environmental Studies

This is an interdisciplinary program that integrates the natural and physical sciences with the social sciences and humanities to study current environmental problems resulting from human population growth, global climate change, overuse of natural resources, pollution and biodiversity loss. A minimum 18 hours are required, 9 of which must be in the natural and physical sciences, including the listed Honors College courses, and 9 must be from the social sciences and humanities. Both BIOL 1202 (Environmental Biology) and POL SCI 3480 Environmental Politics must be completed as part of the total 18 hours. A total of 12 hours must be taken at or above the 2000 level, with one additional course at or above the 3000 level besides POL SCI 3480. At least 9 hours must be taken while in residence at UMSL. A minimum GPA of 2.0 is required.

- ANTHRO 1005 Introduction To Biological Anthropology 4
- ANTHRO 2126 Archaeology Of Greater St Louis 3
- ANTHRO 3228 People and Plants 3
- ANTHRO 3232 Environmental Archaeology 3
- ANTHRO 3270 Human Ecology, Cultural Collapse, and Sustainable Developments 3
- BIOL 1202 Environmental Biology 3
- BIOL 1821 Introductory Biology: Organisms And The Environment 5
- BIOL 2102 General Ecology 3
- BIOL 2103 General Ecology Laboratory 2
- BIOL 2501 Biology Of Plants 5
- BIOL 3202 Conservation Biology 3
- BIOL 3203 Conservation Biology Laboratory 2
- BIOL 3302 Introduction To Evolution 3
- BIOL 4102 Behavioral Ecology 3
- BIOL 4192 Applications of Geographic Information Systems 5
- BIOL 4222 Tropical Ecology And Conservation 3
- BIOL 4245 Field Biology 3
- BIOL 4270 Global Climate Change 3
- BIOL 4402 Ornithology 3
- BIOL 4403 Ornithology Laboratory 2
- BIOL 4422 Entomology 3
- BIOL 4423 Entomology Laboratory 2
- BIOL 4501 Flowering Plant Families: Phylogeny And Diversification 5
- ECON 3500 The Economics of Government Spending and Taxation 3
- ECON 4160 Geospatial Analysis In The Social Sciences 3
- ECON 4170 Fundamentals Of Cost-Benefit Analysis 3
- ECON 4550 Natural Resource Economics 3
- GEOL 1002 Historical Geology 4
- HONORS 2050 Inquiries In The Natural Sciences 1-3
- HONORS 2051 Inquiries in the Sciences: Laboratory or Field Work 1
- INTL BUS 4281 Entrepreneurship in the Global Environment 3
- PHIL 2255 Environmental Ethics 3
- POL SCI 3480 Environmental Policy 3
- POL SCI 3595 Studies In Comparative Politics 3
- POL SCI 3850 International Organizations And Global Problem-Solving 3
- POL SCI 3900 Special Readings 1-10

Minor in Latina/Latino Studies

Latina/Latino Studies at the University of Missouri-St. Louis is an interdisciplinary program dedicated to the study of the historical, social, political, language, and cultural experiences of U.S. Latina/Latinos, their families and communities. Students in this program will examine how transnational understandings of race, ethnicity, politics, culture, and language are mapped onto and struggled over within the United States, the Midwest, and St. Louis.

In addition to two required courses—Introduction to Latina/Latino Studies and an internship/service learning Capstone Experience—students will select three electives to round out the minor, each from a different discipline, on topics such as immigration, bilingualism, cultural worldview, comparative politics, and history (more classes will be added as created).
Students will combine courses across the disciplinary spectrum into an individualized program to gain a deeper understanding of Latina/Latino cultures, histories, and social conditions; while they engage in collaborative projects, civic programs, and service learning; and enhance writing and analytical skills.

**Introductory Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2002</td>
<td>Introduction to Latina/Latino Studies</td>
<td>3</td>
</tr>
</tbody>
</table>

**Electives**

Choose 3 from following list; at most one course from each discipline will count toward the minor/certificate

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTHRO 2139</td>
<td>Shamans, Serpents, and Spirits: Archaeology of the Borderlands</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 4340</td>
<td>Race, Crime, And Justice</td>
<td></td>
</tr>
<tr>
<td>TCH ED 3210</td>
<td>General Linguistics in Tchg English to Speakers of Other Languages</td>
<td></td>
</tr>
<tr>
<td>TCH ED 3211</td>
<td>Basic Principles of Second and Foreign Language Acquisition</td>
<td></td>
</tr>
<tr>
<td>TCH ED 3212</td>
<td>Sociolinguistics and Communication in the Classroom</td>
<td></td>
</tr>
<tr>
<td>FGN LANG 2100</td>
<td>Languages and World View</td>
<td></td>
</tr>
<tr>
<td>HIST 3061</td>
<td>Mexican American History</td>
<td></td>
</tr>
<tr>
<td>HIST 3042</td>
<td>U.S. Social Movements In The 20Th Century</td>
<td></td>
</tr>
<tr>
<td>PHIL 1030</td>
<td>Present Moral Problems</td>
<td></td>
</tr>
<tr>
<td>POL SCI 1500</td>
<td>Introduction To Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>POL SCI 2530</td>
<td>Political Systems Of South America</td>
<td></td>
</tr>
<tr>
<td>POL SCI 2540</td>
<td>Political Systems Of Mexico, Central America And The Caribbean</td>
<td></td>
</tr>
<tr>
<td>SPANISH 3220</td>
<td>Introduction to Spanish Translation and Interpreting</td>
<td></td>
</tr>
<tr>
<td>SPANISH 2101 or above (SPANISH 1199 can substitute)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Capstone**

A service learning/internship capstone experience course in the Latina/Latino community approved by the program director. | 3 |

**Total Hours** | 15 |

**Minor in Legal Studies**

The minor in Legal Studies is open to all undergraduate students at UMSL, whatever their major field. It offers a secondary field of concentration in one of the most important areas of social life. Students may use the minor as a complement to their major, as an additional qualification for career opportunities, or as general education.

This interdisciplinary minor coordinates liberal arts courses related to law. A faculty member in Legal Studies will advise students and will work with their major advisers in planning appropriate courses.

Candidates must take:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>POL SCI/CRIMIN 1200</td>
<td>Foundations Of Law: An Introduction To Legal Studies</td>
<td>3</td>
</tr>
<tr>
<td>Select five of the following: 1</td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>BUS AD 1900</td>
<td>Introduction to Personal Law</td>
<td></td>
</tr>
<tr>
<td>BUS AD 2900</td>
<td>Legal Environment Of Business</td>
<td></td>
</tr>
<tr>
<td>BUS AD 3900</td>
<td>Business Law: Contracts, Sales, Secured Transactions, Bankruptcy</td>
<td></td>
</tr>
</tbody>
</table>

**Minor in Public Affairs Journalism**

Requirements

1. Nine hours in communication/English professional training:
   - ENGL 3140 News Writing | 3 |
   - ENGL 3180 Reporting | 3 |
   - Select one of the following:
     - ENGL 4890 Writing Internship |
     - MEDIA ST 3394 Internship In Journalism |
     - MEDIA ST 3396 Internship In Radio |
     - MEDIA ST 3397 Internship In Television/Film |
   - Total Hours | 6 |

2. Nine hours in public affairs at the 3000 level or above
   a. Students earning a writing certificate or majoring in communication with a mass communication emphasis must take 15 hours (at least 9 of these at the 3000 level or above) in economics, political science, or sociology.
   b. Students majoring in economics, political science, or sociology must take nine hours (in addition to the required English/communication courses) at the 3000 level or above in addition to English/communication courses chosen from those listed.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS AD 3901</td>
<td>Business Law: Negotiable Instruments, Business Organ., Property</td>
<td></td>
</tr>
<tr>
<td>INTL BUS 3280</td>
<td>The Law Of International Business Transactions</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 1100</td>
<td>Introduction To Criminology And Criminal Justice</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 1120</td>
<td>Criminal Law</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 2130</td>
<td>Criminal Justice Policy</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 2250</td>
<td>Courts</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 3345</td>
<td>Rights Of The Offender</td>
<td></td>
</tr>
<tr>
<td>CRIMIN 4300</td>
<td>Communities And Crime</td>
<td></td>
</tr>
<tr>
<td>ECON 3650</td>
<td>Law And Economics</td>
<td></td>
</tr>
<tr>
<td>HIST 3041</td>
<td>Topics In American Constitutional History</td>
<td></td>
</tr>
<tr>
<td>HIST 2085</td>
<td>Medieval England: From Arthur to Richard III</td>
<td></td>
</tr>
<tr>
<td>MEDIA ST 3355</td>
<td>Media Law And Regulation</td>
<td></td>
</tr>
<tr>
<td>PHIL 4487</td>
<td>Topics In Philosophy Of Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 2260</td>
<td>Law, Politics and Society</td>
<td></td>
</tr>
<tr>
<td>POL SCI 2280</td>
<td>Judicial Politics And Policy</td>
<td></td>
</tr>
<tr>
<td>POL SCI 2290</td>
<td>Gender And The Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 3200</td>
<td>Constitutional Law</td>
<td></td>
</tr>
<tr>
<td>POL SCI 3210</td>
<td>Civil Liberties</td>
<td></td>
</tr>
<tr>
<td>POL SCI 3260</td>
<td>The Supreme Court</td>
<td></td>
</tr>
<tr>
<td>POL SCI 4850</td>
<td>International Law</td>
<td></td>
</tr>
</tbody>
</table>

Total Hours | 18 |

1 At least three courses must be taken at the 3000 level and above. No more than two courses from a single discipline may be included in the minor.
above and/or in the two cognate areas outside their major (i.e., economics, political science, or sociology).

A list of courses applicable to the minor is available from the coordinator.

**Minor in Urban Studies**

A minor in urban studies includes 18 hours of course work. Candidates must have a cumulative grade point average of 2.0 or better in the minor. Courses taken on a satisfactory/unsatisfactory basis may not be applied to the minor. Special topics courses relevant to urban studies may be included in the minor when approved in advance by the coordinator of the urban studies minor.

**Requirements**

Students must take:

Select six of the following 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART HS 2279</td>
<td>American Architecture</td>
<td>3</td>
</tr>
<tr>
<td>ART HS 3365</td>
<td>The Artist And The City</td>
<td>3</td>
</tr>
<tr>
<td>CRIMIN 3230</td>
<td>Crime Prevention</td>
<td>3</td>
</tr>
<tr>
<td>CRIMIN 4300</td>
<td>Communities And Crime</td>
<td>3</td>
</tr>
<tr>
<td>ECON 4700</td>
<td>Urban Areas and Real Estate Markets</td>
<td>3</td>
</tr>
<tr>
<td>HIST 3000</td>
<td>Selected Topics In History</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 2350</td>
<td>Introduction To Urban Politics</td>
<td>3</td>
</tr>
<tr>
<td>POL SCI 3450</td>
<td>Urban Administration</td>
<td>3</td>
</tr>
<tr>
<td>PSYCH 3256</td>
<td>Environmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 1040</td>
<td>Social Problems</td>
<td>3</td>
</tr>
<tr>
<td>SOC 2202</td>
<td>Urban Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 3344</td>
<td>Problems Of Urban Community</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours 18

1 At least three courses at the 3000 level or above. No more than two courses from a single discipline may be included in the minor.

**Courses**

**INTDSC 1003 University Studies: 1 semester hour**

This course, required of all new freshmen in the College of Arts and Science and the College of Fine Arts and Communication, is designed to assist students in making the transition to the university experience and to UMSL by giving students the knowledge and tools needed to succeed as a scholar. The course will also familiarize students with the relationship between their education and their career and personal goals, and will assist in developing positive connections with faculty, staff, and peers at UMSL. Students will learn about faculty expectations, support services, and student life, as well as academic disciplines. The course counts toward the 120 credit hours needed for graduation.

**INTDSC 1004 SUCCEED Special Topics: 1-3 semester hours**

Prerequisites: By consent of SUCCEED director. This course is designed to assist students in the SUCCEED program make the transition to the university experience and to UMSL. This course gives students in SUCCEED the opportunity to be co-enrolled in courses that meet their interests and abilities through a mutual agreement between SUCCEED staff and UMSL course instructors regarding enrollment and student expectations.

**INTDSC 1010 Information Research & Student Success: 1 semester hour**

Students will use online library resources to learn search techniques for different types of information. Course content will be delivered through interactive, online tutorials and short, informative videos. Students will develop an understanding of academic research that will set a foundation for critical thinking skills. The course will help students in practical ways, such as for researching term papers, but also in more abstract ways, such as exposing them to the world of scholarship and academic knowledge.

**INTDSC 1030 Language and Communicative Arts Across the Disciplines: 3 semester hours**

Prerequisites: None. This course is designed to advance the academic skills of university-level students. This course consists of listening to academic lectures across the disciplines; reading texts and articles to supplement lectures; writing summaries, essays and responses to exam questions; understanding and editing grammar and sentence structure; phonetics and word stress patterns; presentation skills; and advancing skills in note-taking, critical thinking, and comprehension of advanced college-level vocabulary of various fields of study.

**INTDSC 1120 Special Topics in Gerontology: 3 semester hours**

Same as GERON 2220. Selected topics dealing with various aspects of gerontology. The specific content of this course will vary from semester to semester. The course may be repeated with permission from the Gerontology Director.

**INTDSC 1170 Major and Career Exploration: 1 semester hour**

This course is designed to provide students with the opportunity to learn & explore various majors and career paths within a structured setting. Both informative and interactive, the course will provide students with the opportunity to learn broadly about college majors and their relationship to the ‘world of work,’ while also researching specifically the options they are interested in pursuing. The course seeks to assist students with answering two questions, “What do I want to study?” and “How do I want to make a life for myself (and family)” Components of the course will also educate students about the current and projected employment market, and how to further research pertinent career information.

**INTDSC 1199 Big History: From the Big Bang to the Present: 3 semester hours**

Same as HIST 1999. An introduction to the humanities, social science, and science disciplines through a sweeping overview of natural and human history from the Big Bang to the present. Course will include lectures from faculty in various Arts and Sciences units, films, and group discussions.

**INTDSC 1199A Big History: From the Big Bang to the Present: 6 semester hours**

Same as HIST 1999A. An introduction to the humanities, social science, and science disciplines through a sweeping overview of natural and human history from the Big Bang to the present. Course will include lectures from faculty in various Arts and Sciences units, films, field trips, and group discussions.
**INTDSC 2003 Careers in Health and Medicine: 1 semester hour**  
Same as ANTHRO 2003, GERON 2003, SOC 2003. In this course, students will learn about occupations in such fields as medicine, the allied health professions, health non-profit organizations, and global healthcare delivery. Students will understand the education and skills necessary for various careers and for application to medical, professional, and graduate schools, and will become familiar with majors, certificates and minors that are available at UMSL. They will learn about employment opportunities in the healthcare industry in the St. Louis metropolitan area, and will be introduced to members of the local community who give guest lectures. Students will gain practical experience by shadowing a healthcare professional in their job.

**INTDSC 3010 Peer Mentoring: 1-3 semester hours**  
Prerequisites: Instructor's consent required. The objective of this interdisciplinary course is to prepare and support undergraduate students working across campus as learning assistants, tutors, peer mentors, student leaders, etc. The course will support the development of general pedagogical knowledge of active learning, leadership and facilitation skills, and effective communication and listening skills, that they will use to facilitate learning in settings where students are working collaboratively, reviewing course content, or receiving supplemental instruction to guide their success. This course may be repeated for up to 6 credit hours.