See the link for each minor for more details in the Minor section on this webpage:

http://catalog.memphis.edu/content.php?catoid=3&navoid=69

### **Aerospace Studies Minor**

Upon successful completion of 16 semester hours in Aerospace Studies with a minimum grade of C, a cadet may apply for a minor in Aerospace Studies.

Contact: Air Force ROTC: Maj. David Helton, 901-678-3289

#### **African and African American Studies Minor**

Completion of 18 semester hours including AAAS 2100, 3100, and 12 hours of electives from the following groups, with at least 3 hours from each group. Students may also choose other courses not on the following list as substitutions with the approval of the African and African American Studies advisor: a. Humanities: AAAS 4351; ENGL 3325, 3326, 4372, 4373, 4374, 4521; HIST 3233, 3273, 3281, 3282, 3670, 3840, 3881, 4022, 4050-69 (Special Topics related to African American experience), 4283, 4288, 4289, 4853, 4871, 4879, 4880, 4882; PHIL 3452, 3741.

b. Social and Behavioral Sciences: AAAS 4251; ANTH 3242, 3282, 3511, 4010, 4051, 4120, 4220, 4352, 4411, 4412, 4660, 4661, 4662; CJUS 3510, 4460; ESCI 4431; ECON 4740; POLS 3306, 3320, 3325, 3330, 3415, 3420, 4101, 4222, 4317, 4415, 4416, 4511; SOCI 3112, 3311, 3401, 3420, 3422, 3432, 4420, 4442, 4460.

c. The Arts: ARTH 4111, 4112, 4113, 4181, 4183, 4185, 4660, 4662; COMM 3360, 3361, 4341, 4364, 4373, 4375; MUHL 4800, 4801, 4804, 4805, 4806, 4807; THEA 4559.

Contact: Ladrica Menson-Furr, Imnsnfrr@memphis.edu, 678-5455

# **Anthropology Minor**

Completion of 18 semester hours in anthropology courses, including ANTH 1100, 1200, 3200, and 4065. Contact: Ross Sackett, rsackett@memphis.edu, 901-678-3334

### **Asian Studies Minor**

A minimum of 18 semester hours, including CHIN 2010 and 2020, or JAPN 2010 and 2020, 6 semester hours from CHIN 4301, HIST 3291, 4292, 4294, or PHIL 3721, and 6 semester hours from ESCI 4307, POLS 4307, or UNIV 4506.

Contact: Keri Brondo, kbrondo@memphis.edu, 901-678-2080

# **Biology Minor**

Completion of 18 semester hours in biology courses including BIOL 1110/1111, BIOL 1120/1121 and 10 upper division hours. No more than four total credit hours of research and practicum (BIOL 4000, BIOL 4001, BIOL 4570) can be applied toward minor requirements.

Contact: Anna Bess Sorin, bioadvise@memphis.edu, 901-678-1312

# **Chemistry Minor**

Completion of 20 semester hours in chemistry courses, including CHEM 1110/1111, 1120/1121, and 12 semester hours selected from courses applicable to the chemistry major and including at least two chemistry laboratory courses

Contact: Peter Bridson, pbridson@memphis.edu, 901-678-4423

#### **Chinese Minor**

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in CHIN, and (2) 9 upper division semester hours in Chinese. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Lan Zhang, Izhang3@memphis.edu, 901-678-3146

#### **Classical Studies Minor**

Minor Requirements: A total of 18 hours as follows:

#### Core:

9 hours from the following with no more than 2 courses from any one subject area:

LATN 1010 - Elementary Latin I (3) GREK 1020 - Elementary Greek II (3)
LATN 1020 - Elementary Latin II (3) GREK 2010 - Intermediate Greek I (3)
LATN 2010 - Intermediate Latin I (3) GREK 2020 - Intermediate Greek II (3)

LATN 2020 - Intermediate Latin II (3) CLAS 2481 - Mythology (3)

GREK 1010 - Elementary Greek I (3) POLS 1101 - Intro to Ancient Political Thought (3)

#### **Elective Courses:**

9 hours from the following with no more than 2 courses from any one subject area:

ARTH 4111 - Art/Archaeology of Egypt (3) CLAS 4001 - Science and Engineering in Classical Antiquity (3)

ARTH 4112 - Egypt Art - Old Kingdom (3)

ARTH 4113 - Egypt Art - New Kingdom (3)

ARTH 4121 - Ancient Art Near East (3)

CLAS 4780 - Individual Study Classics (1-3)

CLAS 4791 - Studies in Classics (1-3)

ENGL 4461 - The Bible as Literature Art (3)

ARTH 4123 - Greek Art (3)

ARTH 4124 - Roman Art (3)

ARTH 4125 - Art/Archaeology Pompeii (3)

ARTH 4129 - Ancient/Medieval Architecture (3)

CLAS 3021 - Medical Terminology (3)

CLAS 3412 - Roman Culture (3)

CLAS 3413 - Greek Lit in Translation (3)

HIST 4320 - Ancient World (3)

HIST 4321 - Greek Experience (3)

HIST 4322 - The Roman World (3)

HIST 4323 - Egypt of the Pharaohs (3)

HIST 4361 - History of Byzantine Empire (3)

CLAS 3414 - Roman Lit in Translation (3) PHIL 3001 - Foundations of West Phil/Classical Period (3)

CLAS 4000 - Capital Punishment in the Ancient World (3) POLS 3401 - Legal/Pol Thought Classical (3)

Contact: World Language Department, 901-678-2507

### **Cognitive Science Minor**

Psychology majors are not eligible for the minor and should instead pursue the Cognitive Science Concentration within their major.

A. The Minor

18 semester hours, 9 hours from the core, 3 hours in computer science, and 6 hours from the list of approved electives.

B. Core (9 hours)

PSYC 1030, 3303, 3530.

C. Computer Science Requirement

Select one course from the following:

COMP 1800, 4001, 1900(4).

D. Electives (6 hours-cannot be from Major)

Select two courses from the following:

PHIL 3460, 4421, 4661, ECON 4512, COMP 2700, 4720, MATH 2120, 4083, ENGL 3511

#### **Computer Science Minor**

Completion of 22 semester hours in computer science courses, including COMP 1900 (4), 2150, 3160, 3715 and 9 additional upper division semester hours. (COMP 4001, 4005, and 4015 cannot be used for the minor.)

Contact: Kriangsiri "Top" Malasri, kmalasri@memphis.edu, 901-678-5689

# **Criminology and Criminal Justice Minor**

Completion of 18 hours in criminal justice courses including CJUS 1100, either 2226 or 2326 or 2326, and 3130 and 3540, and 6 additional upper-division hours in Criminology and Criminal Justice courses.

Contact: Mary Tucker, cjusadvising@memphis.edu, 901-678-2761

#### **Earth Sciences Minor**

Completion of 20 semester hours in earth sciences courses, at least 9 of which must be upper division hours.

Contact: Roy Van Arsdale, rvanrsdl@memphis.edu, 901-678-4356

# **Economics Minor**

To receive a minor in Economics, a student is required to take 18 credit hours, (six courses) in economics. Six of those hours (two courses) must be ECON 2010 and ECON 2020. Of the remaining 12 hours (four courses), all of them must be upper-division courses in economics, i.e., 3000-level or 4000-level courses. One of those courses must be either Microeconomic Theory (ECON 3310) or Macroeconomic Theory (ECON 3320). The other three courses (nine hours) are upper-division elective courses.

Contact: William Smith, wtsmith@memphis.edu, 901-678-3754

# **Emergency Management Minor**

18 semester hours, 9 hours from the core and 9 hours from the list of approved electives.

### B. Core (9 hours)

- 1. EMGT 3100/PADM 3100 Seminar on Emergency Management (3)
- 2. Select one from: ESCI 4251 Environmental Hazards, ESCI 3131 Severe Weather, or CJUS 4190 Terrorism: Social and Legal Perspectives (3)
- 3. Capstone Experience: pre-approved internship experience related specifically to emergency management policy, procedures, planning, etc. Alternatively, the student could complete a research seminar/project on a relevant and pre-approved emergency management topic. Select one from: EMGT 4000 Internship, ESCI 4621 Investigations in Geography, CJUS 4100 Individual Directed Studies.

#### C. Electives (9 hours)

Three courses (9 hours), none of which have been used to fulfill the core requirements, from among the following groups with no more than two courses (6 hours) from the same group:

- 1. Physical Management: ESCI 4251, Environmental Hazards; ESCI 3131 Severe Weather
- 2. Human (Social/Cultural/Legal/Political) Management: CJUS 4190 Terrorism: Social and Legal Perspectives; ANTH 4510 Health, Culture, Environmental Justice; PADM 3601 Introduction to Public Administration; PADM 4221 Issues in Urban Administration; SOCI 3701 Individual and Society; SOCI 3401 Social Inequality; ANTH 4220 Cultural Perspectives/Environment; COMM 3322 Theories of Persuasion With approval from the Emergency Management advisor, special topics courses related to emergency management topics may be substituted to fulfill requirements for the minor.

Contact: Arleen Hill, aahill@memphis.edu, 901-2589

#### **English Minor**

Completion of 12 upper division hours in English (excluding ENGL 3500 and 3603).

Contact: Dale Williams, dmwllams@memphis.edu, 901-678-4500

#### **Environmental Studies Minor**

Students pursuing behavioral-humanistic-design emphasis must select two courses (6 hours) from the following offerings: BIOL 1020/1021 - Intro to Biology II/Lab; CHEM 1010/1011 - Chemistry of Materials/Lab; ESCI 1020 – Landforms; ESCI 1003 – Earth; ESCI 1010 - Weather and Climate; or ARCH 3421 - Environmental Systems with ARCH 3713 - Architecture Design Studio

Students pursuing an environmental science emphasis must select two courses (6 hours) in different disciplines from the following offerings: BIOL 3050 - General Ecology; BIOL 4055 - Ecology/Environmental Issues; CHEM 4001 - Environmental Chemistry; ESCI 4251 - Environmental Hazards; ESCI 4252 - Global Environmental Change; PHYS 4222 - Environmental Physics All Environmental Studies students also select three elective courses (9 hours) from the following offerings: ANTH 4220 - Cultural Perspectives/Environment; ANTH 4510 - Health/Culture/Environmental Justice; ECON 4230 - Ecological Economics; ESCI 4201 - Urbanization/Environment; PHIL 3515 - Environmental Ethics; POLS 4512 Global Environmental Politics; ARCH 4421 - Sustainable Design

In addition to these elective courses, all Environmental Studies students are required to take one core course: ENVR 4000 - Environmental Studies Directed Research.

Contact: Rob Marczynski, marczyns@memphis.edu, 901-678-3516

#### **French Minor**

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in FREN, and (2) 9 upper division semester hours in French. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Will Thompson, wjthmpsn@memphis.edu, 901-678-3148

#### **German Minor**

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in GERM, and (2) 9 upper division semester hours in German. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Heike Polster, hpolster@memphis.edu, 901-678-2830

#### **Healthcare and Society Minor**

18 semester hours of required courses and electives:

A. Required Core Courses: One of PSYC 1030 or SOCI 1010; COMM 4012; PHIL 3514.\*

B. One course from each of the three following categories:

Health and Wellness: EDPR 2111, HPRO 2100, HPRO 2200, NUTR 2202.

Cultural Competency: ANTH 4510, ANTH 4521, ANTH 4571, ECON 4740, HPRO 4510, SOCI 3401, SOCI 3422, SOCI 3432, SOCI 4420, SOCI 4442.

Social and Psychological Foundations: ANTH 4531, ANTH 4541, PSYC 3102, PSYC 3306, PSYC 3506, PSYC 3507, PSYC 3512, SOCI 4541, SOCI 4851, SOCI 4852.

\* Students planning to take the MCAT should take both PSYC 1030 and SOCI 1010 but only one course will count toward the minor requirements.

Contact: Jessica Kelso, jgcliffrd@memphis.edu, 901-678-5454

#### **History Minor**

Minors must complete 21 semester hours in history courses. At least 9 hours must be from HIST 1110, 1120, 2010, 2020; and at least 9 hours must be upper division courses.

Contact: Chrystal Goudsouzian, cdykes@memphis.edu, 901-678-5339

#### **International Studies Minor**

Completion of 18 semester hours, consisting of (a) either POLS 1501, POLS 1301 or SOCI 2100, (b) INTL 4601, (c) one upper division course in a modern foreign language and (d) three upper division courses that count towards the IS major. A maximum of six hours from either study abroad or internship credits may be used towards fulfilling the requirements of the IS minor (subject to approval by the IS director). Contact: Keri Brondo, kbrondo@memphis.edu, 901-678-2080

#### **Italian Minor**

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents, in ITAL, and (2) 9 upper division semester hours in Italian. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Cosetta Gaudenzi, cgaudenz@memphis.edu, 901-678-2504

### Japanese Minor

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in JAPN, and (2) 9 upper division semester hours in Japanese. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Yuki Matsuda, ymatsuda@memphis.edu, 901-678-3163

#### **Judaic Studies Minor**

A. Lower Division Core (3 hours): JDST 2850

B. Upper Division Core (3 hours): JDST 3201, 3202, 3801, 3802

C. Upper Division Electives (6 hours): Jewish Heritage (3 hours): UNIV 3580; JDST 4551, 4661, 4671,

4511; Israel (3 hours): JDST 4820, 4830, 4840

D. General Electives (6 hours)

ARTH 4121; POLS 3102; UNIV 3580; SOCI 3860; ENGL 4461; PHIL 4711

With the permission of the Director of Bornblum Judaic Studies, students may substitute up to two courses in any category listed above. Such courses will have substantial Judaic Studies content.

Contact: Shaul Bar, sbar@memphis.edu, 901-678-2919

# **Legal Thought and Liberal Arts Minor**

18 semester hours of required courses and electives:

Required Core Course: PHIL 1611 and either ENGL 3604 or 4602.

Electives: Select one course from four of the following five groups (each course chosen must be from a different group:

Economic Context of the Law: ECON 2010, 2020 4210, 4220, 4250, 4340.

Historical Context of the Law: HIST 3121, 3840, 4506.

Practical Foundations of Jurisprudence: CJUS 3510, 4521; POLS 3219, 4212, 4405, 4504.

Theoretical Foundations of Jurisprudence: PHIL 3411, 3511, 3514, 3516, 4551; POLS 3401, 3402, 3405; UNIV 3580.

Critical Reading and Thinking: any 4000-level English literature (ENGL 4230-4461) course, or ENGL 4602 (if not taken as the core), or any upper-division philosophy course not listed above.

NOTE: Some of these courses may have prerequisites. Students are responsible for obtaining permission from the instructor to enroll in the course if they have not fulfilled those prerequisites.

Contact: Jessica Kelso, jgclffrd@memphis.edu, 901-678-5454

#### **Mathematical Sciences Minor**

A minimum of 20 semester hours, including MATH 1910 (4), 1920 (4), and 9 additional upper division semester hours in MATH courses approved by the Chair or Chair's designee of the Department of Mathematical Sciences, plus one of COMP 2700, MATH 2702, MATH 2110, or an additional upper division MATH course approved by the Chair or Chair's designee of the Department of Mathematics. Contact: David Dwiggins, ddwiggns@memphis.edu, 901-678-4174

### **Military Science Minor**

A minor in Military Science can be obtained through meeting the following requirements: 19 semester hours consisting of ARMY 3100, 3105, 3111, 3115, 3121, 4100, 4111, 4115 and 4121.

Contact: Army ROTC, Brian Hagood, bhagood@memphis.edu, 901-678-2934

#### **Naval Sciences Minor**

Completion of 18 semester hours in the following: NAVY 1500, 1600, 2500, 4600 (9 hours total); and select three courses from the following electives: NAVY 2600, 3500, 3520, 3600, 3620, 4500 or 4520. The Naval Science Minor and all Naval Science courses do not require enrollment in the Naval ROTC program and are open to all University of Memphis students.

Contact: Navy ROTC, Capt. Brian Goszkowicz, 901-678-2370

### **Nonprofit Management Minor**

18 semester hours, three hours of a required course, and 15 hours from the guided electives.

Required course (3 hours): PADM 4226 Introduction to Nonprofit Organizations

Guided electives (15 hours): Choose one from each category: (3 hours):

- 1. Accounting and Financial Management: ACCT 2010, PADM 4227, or PADM 4228.
- 2. Organization and Administration: PADM 3601; MGMT 3110
- 3. Communication Skills: COMM 4342, COMM 4375; COMM 4380; COUN 4621, MGMT 4420 or SWRK 3902
- 4. Nonprofit Context: ANTH/PADM 4412, ART 3411, CSED 3302, PADM 3501, PADM 4221, POLS 3505, PSYC 3103, or SWRK 2911
- 5. Nonprofit Organizations: PADM 4231; INTL 4911; or SWRK 4830/4831, or another approved internship course.

Contact: Candace Walsh, cmwalsh1@memphis.edu, 901-678-4395

### **Philosophy Minor**

Completion of 18 semester hours in philosophy courses, including PHIL 1101 or 1102, 1311 or 1611, and 12 upper division semester hours. In consultation with the coordinator of undergraduate studies in philosophy, a student may design a minor (18 hours) that applies to the student's major area of study. Contact: Remy Debes, rdebes@memphis.edu, 901-678-3352

### **Physics Minor**

Completion of 20 semester hours in physics courses, including PHYS 2110/2111, 2120/2121 (PHYS 2010/2011, 2020/2021 are acceptable but not recommended), and 12 additional upper division hours. Contact: Mohamed Laradji, mlaradji@memphis.edu, 901-678-1676

#### **Political Science Minor**

To complete the minor in Political Science, a student must earn 18 hours in political science discipline to the following conditions: a) students must complete at least 3 hours each in three of the four area listed above; b) students must complete at least 9 hours in courses at the 3000-level or higher; c) no more than 6 hours of internship (POLS 4230, 4231), mock trial (POLS 4709), research and studies abroad (POLS 4399), and independent study (POLS 4702) combined may be counted toward the 18 hours required for a minor in Political Science.

Contact: Ebony Dawkins, endawkns@memphis.edu, 901-678-2342

# **Psychology Minor**

Completion of 20 semester hours in psychology, including PSYC 1030, 3010, 3020 (or equivalent), and 9 additional upper-division hours.

Contact: Marion Powless, 901-678-2543, psycadvise@memphis.edu

# **Public Administration Minor**

Students must complete 18 hours in Political Science and Public Administration, including 9 hours of required core course and 9 hours from a set of guided electives.

Required Courses: POLS 1030, PADM 3501, PADM 3601, and PADM 4221.

Guided Electives: Choose 9 hours from among the following: CJUS 4126, POLS 3211, POLS 3213, PADM 4101, POLS 4222, PADM 4226, PADM 4228, PADM 4231, PADM 4401, PADM/ANTH 4412, or PADM 4710-19.

Contact: Candace Walsh, cmwalsh1@memphis.edu, 901-678-4395

### **Religious Studies Minor**

18 semester hours of required courses and electives:

Lower Division Core (3 hours)

RLGN 1100 Introduction to Religion

Upper Division Core (3 hours)

RLGN 3100 Perspectives on Religion

Senior Capstone Project (3 hours)

RLGN 4990 Senior Capstone Project in Religious Studies

Electives (9 hours)

All courses listed below are 3 hours unless otherwise noted. Other courses, including special topics, individual study, and directed readings courses, may be counted with prior permission of the Program Coordinator.

**Elective Course Listing:** 

AAAS 4251, African Religions/Diaspora; ANTH 3253, Magic and Religion; ARTH 4031, Art/Iconoclasm/Images; CLAS 2481, Mythology; ENGL 4461, Bible as Literature; HIST 3273, Islamic

Civilization; HIST 3274, Modern Islamic World; HIST 3275, History of Jewish People; JDST 2850, Religions of Abraham; JDST 3601, Judaism; JDST 3661, Old Testament; JDST 3801, Jewish Thought I; JDST 3802, Jewish Thought II; JDST 4511, Holocaust Studies; JDST 4801, Jewish Mysticism; JDST 4841, Biblical Archaeology; PHIL 3701, Human and the Divine; PHIL 3702, Philosophy of Religion; PHIL 3721, Chinese Philosophy; POLS 3102, Religion and Politics; RLGN 4010, Directed Readings; RLGN 4050-75, Special Topics in Religious Studies; SOCI 3860, Sociology of Religion; UNIV 3581, Faith, Reason and Imagination.

Contact: Rob Marczynski, marczyns@memphis.edu, 901-678-3516

#### **Russian Minor**

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in RUSS, and (2) 9 upper division semester hours in Russian. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Foreign Language Department, 901-678-2507

# **Social Work Minor**

Completion of 21 semester hours in sociology and social work courses including SOCI 1010, SWRK 2010, SWRK 2011, and 2911, and 9 additional upper division hours in social work courses.

Contact: Susan Elswick, selswick@memphis.edu, 901-678-4722

# **Sociology Minor**

SOCI 1010 and 15 upper-division hours in SOCI.

Contact: Kendra Murphy, khmrphy1@memphis.edu, 678-4555

# **Spanish Minor**

Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in SPAN, and (2) 9 upper division semester hours in Spanish. Students placing directly into 2010 or higher on the Foreign Language placement exam may complete the requirements for the minor by either: (1) applying for retroactive credit for 1020 and any subsequent courses out of which they have placed; or (2) completing additional upper-division hours to bring the total number of hours for the minor to 18.

Contact: Jennifer Johnston, jrock@memphsi.edu, 901-678-4273

#### **Women's and Gender Studies Minor**

18 semester hours, 9 hours from the core and 9 hours from the list of approved electives.

B. Core (9 hours)

HIST 4853 or SOCI 4460 or PSYC 3236; PHIL 3452; WMST 2100.

C. Electives (9 hours)

Select one course from each of the following groups:

- 1. Women's Issues Across Time and Place: ANTH 3511, 4551; CJUS 4460; HIST 4213, 4289, 4831, 4851; SOCI 3432.
- 2. Cultural Studies: COMM 4364, 4373, 4856; ENGL 3325, 3326, 4372, 4373, 4451; SLS 4125.
- 3. Diversity Among Women: HIST 3881, 4289, 4853, 4882; PHIL 3741; POLS 3320, 3415, 4415, 4416; SOCI 3401, 3420, 3422, 4420; PSYC 3236.

With approval from the Director of Women's and Gender Studies, a special topics course may be substituted for an elective in each group.

Contact: Rob Marczynski, marczyns@memphis.edu, 901-678-3516

Last Updated 7/10/2017