MINORS AVAILABLE IN THE COLLEGE OF ARTS AND SCIENCES

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: 901-678-2681

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: Beverly Bond, bbond@memphis.edu, 901-678-3376.
a. Humanities: AAAS 4351; ENGL 3325, 3326, 4372, 4373, 4521; HIST 3273, 3274, 3281, 3282, 3840, 3881, 4022, 4050-69 (Special Topics related to African American experience), 4273, 4283, 4288, 4289, 4853, 4871, 4879, 4880, 4882; PHIL 3452, 3741.
b. Social and Behavioral Sciences: AAAS 4251; ANTH 3232, 3242, 3282, 3511, 4010, 4051, 4120, 4220, 4352, 4411, 4412, 4660, 4661, 4662; CJUS 3510, 4460; ESCI 4431; ECON 3411, 4740; POLS 3306, 3320, 3325, 3330, 3415, 4101, 4222, 4317, 4415, 4416, 4511; SLS 4145; SOCI 3112, 3311, 3401, 3420, 3422, 3432, 4420, 4442, 4460.
c. The Arts: ARTH 4111, 4112, 4113, 4181, 4183, 4185, 4660, 4661, 4662; COMM 3360, 3361, 4341, 4364, 4373, 4375; MUHL 4800, 4801, 4804, 4805, 4806, 4807; THEA 4559.

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, 3817, 4292, 4294, or PHIL 3721, and 6 semester hours from ECON 4340, ESCI 4307, POLS 4307, or UNIV 4506.
Contact: Robert Blanton, rblanton@memphis.edu, 901-678-2395

Biology Minor
Completion of 18 semester hours in biology courses including BIOL 1110/1111, BIOL 1120/1121 and 10 upper division hours.
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, the remaining semester hours must be selected from upper division chemistry courses and include at least two chemistry laboratory courses.
Contact: Mark Freilich, mfreilch@memphis.edu, 901-678-4445 or Dick Petersen, rlpetrsn@memphis.edu, 678-4416

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

Criminology and Criminal Justice Minor
Completion of 18 hours in criminal justice courses including CJUS 1100, 2101, 3540, and 9 additional upper-division hours in Criminology and Criminal Justice courses.
Contact: Clymesa Applewhite, cdpplwht@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: George Swihart, gswihart@memphis.edu, 901-678-2606

Economics Minor
To receive a minor in Economics, a student is required to take 12 upper-division hours in economics, 3 hours of which must be either Microeconomic Theory (ECON 3310) or Macroeconomic Theory (ECON 3320).
Contact: Douglas Campbell, dacampbe@memphis.edu, 901-678-3754

English Minor
Completion of 12 upper division hours in English (excluding ENGL 3500 and 3603).
Contact: Laura Wright, llwrigh@memphis.edu, 901-678-4500

Environmental Studies Minor
The Interdisciplinary Environmental Studies Minor Program is intended to provide all students with the opportunity to obtain a broad-based knowledge of the environmental issues facing our planet, knowledge that spans both the biological-physical threats and solutions as well as behavioral-social-economic implications. One core course (ENVR 4000--Environmental Studies Directed Research) is required of all students.

Students pursuing behavioral-humanistic emphasis must select two natural science courses with the corresponding laboratory from the following: BIOL 1020/1021, CHEM 1010/1011, ESCI 1020, and select three courses with a behavior-humanistic emphasis from the following: ANTH 4220, ANTH 4510, ECON 3024, ESCI 4201, PHIL 3515, POLS 4512.

Students pursuing an environmental science emphasis must select two natural science courses from different disciplines from the following: BIOL 3050, BIOL 4055, CHEM 4001, ESCI 4252, PHYS 4222, and select three courses with a behavioral-humanistic emphasis from the following: ANTH 4220, ANTH 4510, ECON 3024, ESCI 4201, PHIL 3515, POLS 4512.
Contact: Joy Clay, joyclay@memphis.edu, 901-678-3370

Foreign Languages Minor
Completion of 18 semester hours consisting of (1) courses numbered 1020, 2010, and either 2020 or 2021 (or their equivalents) in the foreign language in which upper division hours are to be taken, and (2) 9 upper division semester hours in one of the following languages: Chinese, French, German, Greek, Italian, Japanese, Latin, Russian, or 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: Foreign Language Department, 901-678-2507

History Minor
Completion of 21 semester hours in history courses, including HIST 1110, 1120, 2010, 2020, and 9 additional upper division semester hours.
Contact: Walter Brown, wrbrown@memphis.edu, 901-678-3393, or Maurice Crouse, mcrouse@memphis.edu, 901-678-2517

International Studies Minor
Completion of 18 semester hours, consisting of (a) either POLS 1501, POLS 1301 or UNHP 1102, (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: Robert Blanton, rblanton@memphis.edu, 901-678-2395

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: Sara Abosch, sabosch@memphis.edu, 901-678-1683
Shaul Bar, sbar@memphis.edu, 901-678-2919

Legal Thought and Liberal Arts Minor
The minor in Legal Thought and Liberal Arts is designed to provide an interdisciplinary liberal arts program for students in any major who intend to enter the legal profession. The minor will be of particular benefit to pre-law students whose majors are more professional in nature and who are not exposed to the broader liberal arts curriculum. Students will be introduced to major intellectual traditions of the West and to ethical, social, and economic issues of significance to our time. The courses in the minor require that students read critically, think logically, and write clearly - attributes required of persons in the legal profession. Students wishing to minor in Legal Thought and Liberal Arts should contact the pre-professional advisor in room 107 Scates Hall.
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, 3411, 4130.
Historical Context of the Law: HIST 3121, 3506, 3840.
Practical Foundations of Jurisprudence: CJUS 3510, 4521; POLS 3219, 4212, 4405, 4504, 4521.
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 4231-4471) 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 Clifford, jgclffrd@memphis.edu, 901-678-3373

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 MATH 2701, 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: Raymond Clapsadle, raclpsdl@memphis.edu, 901-678-4201
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 2105, 3100, 3111, 3115, 3121, 4100, 4111, 4115 and 4121.
Contact: Army ROTC, 901-678-2922

Naval Sciences Minor
Completion of 18 semester hours in the following: NAVY 1101, 1105, 2401, 4402 (9 hours total); and select three courses from the following electives: NAVY 2205, 3301, 3302, 3310, 4207, 4410.
Contact: Navy ROTC, 901-678-2370

Nonprofit Management Minor
The Division of Public and Nonprofit Administration offers an interdisciplinary minor in Nonprofit Management which includes courses that address competencies necessary for work in nonprofit organizations. The minor is open to students majoring in any department in the University or to special students who wish to enroll in order to take such a program.
Students who complete this minor and specified co-curricular activities will be eligible for certification in Nonprofit Management and Leadership by American Humanics, a certification program that builds competencies in nonprofit administration through coursework, internships, volunteer opportunities, student association leadership activities and professional development workshops.
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 or PADM 4227
2. Organization and Administration: POLS 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, POLS 3505, PSYC 3103, SOCI 4923, or SWRK 2911
5. Nonprofit Organizations: PADM 4231; INTL 4911; or SWRK 4830/4831, or another approved internship course.
Contact: Susan Schmidt, stschmdt@memphis.edu, 901-678-4395

Philosophy Minor
Completion of 18 semester hours in philosophy courses, including PHIL 1101 or 1102, 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: Hoke Robinson, hrobinsn@memphis.edu, 901-678-3356

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), PHYS 2115, and nine additional upper division hours.
Contact: Donald Franceschetti, dfrnsch@memphis.edu, 901-678-5257

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: Matthias Kaelberer, mkaelbrr@memphis.edu, 901-678-2395

Psychology Minor
Completion of 20 semester hours in psychology, including PSYC 1030, 3010 (4) 3020 (4) (or equivalent), and 9 additional upper-division hours.
Contact: Marion Powless, mpowless@memphis.edu, 901-678-2543

Public Administration Minor
The Division of Public and Nonprofit Administration offers a minor in Public Administration with includes courses that address competencies necessary for work in local government and public agencies. The minor is open to students majoring in any department in the University. 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, and PADM 3601 and 4221.
Guided Electives: Choose 9 hours from among the following: CJUS 4126, POLS 3211, POLS 3213, PADM 4101, POLS 4222, PADM 4226, PADM 4231, PADM 4401, PADM/ANTH 4412, or PADM 4710-19.
Contact: Susan Schmidt, stschmdt@memphis.edu, 901-678-4395

Religious Studies
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)
Chosen from course list in the Undergraduate Catalog
Contact: Robert Yelle, ryelle@memphis.edu, 678-2540

Social Work Minor
Completion of 18 semester hours in sociology and social work courses including SOCI 1010, SWRK 2010, and 2911, and 9 additional upper division hours in social work courses.
Contact: Jerome Blakemore, jblkm@memphis.edu, 901-678-2616

Sociology Minor
Completion of 18 semester hours in sociology, including SOCI 1010.
Contact: Stella Warren, sawarren@memphis.edu, 901-678-3342

Women's and Gender Studies Minor

This minor is designed to expose students to multidisciplinary approaches to racially diverse women's lives. Students therefore take courses from both the humanities and social sciences, and study issues of racial diversity as well as gender.

A. The 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: Wanda Rushing, wrushing@memphis.edu, 901-678-3349

Refer to the specific program in the Undergraduate Catalog in the College of Arts and Sciences list: http://www.memphis.edu/ugcatalog/collegeprog/index.php

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