College of Math and Science Minors

A minor is an optional component of a student’s degree (unless otherwise stated) that, upon graduation, will be reflected on the student’s transcript. A student may earn a minor or multiple minors in the same program, provided the minor differ at the major level. Minors may not be earned independently of a bachelor’s degree granted by the University of Central Oklahoma. Minors may not be earned as a part of an associate degree. Minors do not appear on diplomas.

Minimum Requirements for Minors

Minimums for minors unless otherwise specified:

- Total Hours: 18
- Upper Division Hours (3/4000 level): 6
- Residency Hours: 6
- GPA: 2.00

Biology

Biology: 18-19

Minor Code: 6019

Required courses: 12
- BIO 1204: Biology for Majors: Principles
- BIO 1225: Biology for Majors: Diversity
- BIO 2203: Cell Biology

Elective Biology (upper division): 6-7
- Select 2 courses from this list:
  - BIO 3054: Microbiology for Majors
  - BIO 3303: Genetics
  - BIO 3543: General Ecology
  - BIO 3703: Evolution

A grade of “C” or better is required in each course.

Chemistry

Chemistry: 20

Minor Code: 6079

Required courses: 14
- CHEM 1103: General Chemistry I
- CHEM 1112: General Chemistry I-Recitation/Lab
- CHEM 1223: General Chemistry II
- CHEM 1232: General Chemistry II-Recitation/Lab
- CHEM 2104: Quantitative Analysis and Lab

Elective Chemistry (3/4000 level): 6

Computer Science

Computer Science: 18

Minor Code: 6119

Required courses: 15
- CMSC 1613: Programming I
- CMSC 2123: Discrete Structures
- CMSC 2613: Programming II
- CMSC 2833: Computer Organization I
- CMSC 3613: Data Structures and Algorithms

Elective Computer Science (3/4000 level): 3

Elective Mathematics (3/4000 level): 6
(May include three hours from a 3000 or 4000 level statistics course.)

Elective Physic and Engineering: 3-4
Any 3000 or 4000 level ENGR course.

Grief, Death, and Dying

Grief, Death, and Dying: 18-19

Minor Code: 6139

Required courses: 9
- FNRL 3483: Psychology of Grief
- FNRL 3493: Thanatology and Unresolved Grief
- FNRL 4183: Natural History of Bereavement

Selected courses: 9-10
- FNRL 2313: Contemporary Funeral Service
- FNRL 3304: Restorative Art
- FNRL 3383: Funeral Service Statutory Law
- FNRL 3393: Mortuary Jurisprudence
- FNRL 3433: Introduction to Pathology
- FNRL 3493: Funeral Service Communication
- FNRL 3513: History of Funeral Directing

Mathematics

Mathematics: 18

Minor Code: 6179

Required courses: 12
- MATH 2313: Calculus 1
- MATH 2323: Calculus 2
- MATH 2333: Calculus 3
- MATH 2343: Calculus 4

Elective Mathematics (3/4000 level): 6

Science Education

Science Education - Secondary Science Education: 18

Minor Code: 6059

Required courses: 18
- PTE 4333: Meeting Secondary Students’ Needs
- PTE 4433: Designing Instruction for Secondary Students
- PTE 4543: Managing Secondary Classrooms
- PTE 4623: Secondary Class Assessment
- BIO 4812: Teaching and Learning in Science Classrooms
- BIO 4853: General Methods of Teaching Science and Lab
College of Math and Science Minors - continued

* BIO 4930 Individual Study in Biology (1 hour) OR
    PHY 4930 Individual Study in Physics (1 hour) OR
    CHEM 4930 Individual Study in Chemistry (1 hour)
* Students will take the Individual Study from the Science Education coordinator within their content area.

A grade of “C” or better is required in each course.

Statistics

Statistics  ........................................................................................................ 18
Minor Code:  6178

Any 18 hours of Statistics (6 hours at 3/4000 level)