

**REQUIREMENTS FOR THE MINOR**  
**GALLOGLY COLLEGE OF ENGINEERING**  
**THE UNIVERSITY OF OKLAHOMA**

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2023 through Spring 2024

General Requirements	
Minimum Total Credit Hours .....	18
Minimum Upper-Division Hours .....	6

Program
<b>Computational Technology</b>
N230
Minor

**The requirements for a minor must be completed concurrently with the major degree requirements.**

**No minor may be added by completing courses after receiving the bachelor's degree.**

Students must complete at least nine (9) minor hours in residence at the University of Oklahoma.

9 credits from a single selected cognate discipline (JMC, LIS, MIS, or GIS), at least 6 of which are at the upper division (3000 or 4000 level), and one mathematics course chosen to complement the cognate discipline.

A minimum grade of C is required in all courses which are applied to the minor and in all prerequisite courses for the minor.

Galoggly College of Engineering academic policies regarding repeating courses apply.

Students must complete prerequisites for all courses.

### REQUIRED COURSES

Code	Title	Credit Hours
<b>Required Courses</b>		
C S 1323	Introduction to Computer Programming for Programmers	3
C S 2334	Programming Structures and Abstractions	4
<b>Tracks</b>		
Choose one of the following tracks:		12
Journalism & Mass Communication		
Library Information Systems		
Management Information Systems		
Geographic Information Systems		
<b>Total Credit Hours</b>		<b>19</b>

### TRACKS

#### JOURNALISM & MASS COMMUNICATION

Code	Title	Credit Hours
Choose one of the following:		3
MATH 1523	Precalculus and Trigonometry	
MATH 1743	Calculus I for Business, Life and Social Sciences	
MATH 1823	Calculus and Analytic Geometry I	
JMC 2033	Media Writing & Storytelling (or other writing course approved by a JMC advisor)	3
Choose two upper division JMC courses from approved list		6
<b>Total Credit Hours</b>		<b>12</b>

#### LIBRARY INFORMATION SYSTEMS

Code	Title	Credit Hours
Choose one of the following:		3
MATH 1523	Precalculus and Trigonometry	
MATH 1743	Calculus I for Business, Life and Social Sciences	
MATH 1823	Calculus and Analytic Geometry I	
LIS 2003	Introduction to Information Science	3
Choose two 4000 level LIS courses from approved list		6
<b>Total Credit Hours</b>		<b>12</b>

#### MANAGEMENT INFORMATION SYSTEMS

Code	Title	Credit Hours
MATH 1743	Calculus I for Business, Life and Social Sciences	3
or MATH 1823	Calculus and Analytic Geometry I	
MIS 3213	Business Data Analysis	3
MIS 3353	Databases	3
MIS 3383	Electronic Business	3
<b>Total Credit Hours</b>		<b>12</b>

#### GEOGRAPHIC INFORMATION SYSTEMS

Code	Title	Credit Hours
MATH 1823	Calculus and Analytic Geometry I	3
GIS 2023	Introduction to Spatial Thinking and Computer Mapping	3
Choose two upper division GIS courses from an approved list		6
<b>Total Credit Hours</b>		<b>12</b>

Minors are available to all undergraduate students at OU. If the minor is officially declared, successfully completed, and noted on the graduation application, the student's transcript will so indicate at the time the bachelor's degree is posted.

More information in the catalog: (<http://ou-public.courseleaf.com/galoggly-engineering/computer-science/computational-technology-minor/>).