COMPUTER SCIENCE (BA)

Description

The major in computer science for the B.A. degree offers a flexible curriculum that enables the study of computer science to be combined with studies in other areas of the liberal arts and sciences. Students interested in the professional B.S.C.S. degree program should consult the School of Engineering portion of the catalog.

Minimum Total Credit Hours: 120

Degree Requirements

The academic regulations for this degree program, as entered in the University of Mississippi Catalog, are in effect for the current or selected academic year and semester. The University of Mississippi reserves the right to

1. change or withdraw courses;
2. change rules for registration, instruction, and graduation; and
3. change other regulations affecting the student body at any time.

General Education

Code	Title	Hours
Select one of the following First Year Writing I courses:		3
WRIT 1000	Introduction to College Writing	
or WRIT 1011	First-Year Writing I	
Select one of the following First Year Writing II courses:		3
WRIT 1020	First-Year Writing II	
or LIBA 1020	First Year Seminar	
Select six hours of literature survey courses from the following:		6
ENGL 2220	Survey in Literary History	
ENGL 2221	Survey of World Literature to 1650	
ENGL 2222	Survey of World Literature since 1650	
ENGL 2223	Survey of American Lit to the Civil War	
ENGL 2224	Survey of American Lit since Civil War	
ENGL 2225	Survey of British Lit to 18th Century	
ENGL 2226	Survey of Brit Lit since Romantic Period	
Select six hours of modern or ancient language 2000 level or above [1]		6
Select six hours of history courses [2]		6
Select three hours of humanities from the following: [3]		3
African American Studies		
Classical Civilization		
ENVS 1010	Humanities and the Environment	
ISOM 2010	Introduction to Gender Studies	
ISOM 2020	Introduction to Queer Studies	
ISOM 3100	Topics in Gender and Culture	
ISOM 3110	Women, Gender & the Environment	
ISOM 3130	Theories in Gender	
ISOM 3140	Men, Women, and Greek Life	
ISOM 3150	Gender and Sexuality in Cinema	
ISOM 3153	Gender and Sexuality in the Media	
ISOM 4120	Advanced Queer Studies	
Philosophy		
Religion		
Southern Studies (any 1000 level only)		
RHET 2010	Introduction to Rhetoric	
LIBA 2020	Interdisciplinary Humanities	
LIBA 3050	Humanities and the Experience of War	
LIBA 3120	Advanced Interdisciplinary Humanities	
Select three hours of fine arts courses from he following: [2,3]		3
Art History		
DANC 2000	Dance Appreciation	
MUSC 1010	Introduction to Music Literature	
MUSC 1020	Fundamentals of Music Theory	
MUSC 1030	Introduction to Music	
MUSC 1040	Introduction to World Music Cultures	
MUSC 1050	Music Theory and Analysis I	
THEA 2010	Appreciation of the Theatre	
THEA 2020	Introduction to Cinema	
LIBA 1300	Introduction to the Fine Arts	
LIBA 2040	Interdisciplinary Arts	
LIBA 3140	Advanced Interdisciplinary Arts	
Select three hours of Math at the 1000 level or above [4]		3
Select six hours of Social Science from the following areas:		6
Anthropology		
Economics		
Political Science		
Psychology		
Sociology		
LIBA 2030	Interdisciplinary Social Sciences	
LIBA 3130	Advanced Interdisc Social Science	
3 science courses, of which 2 must have labs [5]		9-11
Astronomy OR Physics (must be 2 courses in Astronomy or 2 courses in Physics)		
Biology		
Chemistry		
Geology		
LIBA 1500	Integrated Science I	
LIBA 1510	Integrated Science II	
LIBA 2050	Interdisciplinary Sciences	
LIBA 2051	Interdisciplinary Lab Sciences	
LIBA 3150	Advanced Interdisciplinary Sciences	
Total Hours		**48-50**

[1] Modern Languages: Arabic, Chinese, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, & Swahili.
Classics: Ancient Greek and Latin.
Communication Sciences & Disorders: American Sign Language
Philosophy and Religion: Hebrew

[2] Freshmen may not register for 3000 level courses.

[3] In addition, gender studies courses that are cross-listed with African American studies, classical civilization, English, modern languages, philosophy, or religion curses will satisfy this requirement.

[4] Except for MATH 2451 Mathematics for Elementary Teachers I and MATH 2452 Mathematics for Elementary Teachers II.

[5] Courses may be chosen from astronomy, biology, chemistry, geology, LIBA 2050 Interdisciplinary Sciences, LIBA 2051 Interdisciplinary Lab Sciences, LIBA 1500 Integrated Science I, LIBA 1510 Integrated Science II, LIBA 3150 Advanced Interdisciplinary Sciences, LIBA 3151 Advanced Interdisciplinary Lab Sciences and physics. Two semesters of coursework in one subject and one semester in a subject from another department are required. Each course must be a minimum of 3 credit hours. At least two of the courses taken must include laboratories. For some classes, the required laboratory will be an additional 1-hour course. For example, a student might take two 3-hour lecture courses in chemistry along with the two associated 1-hour laboratory courses, and one 3-hour course in biology without laboratory. As a second example, a student might take two 4-hour lecture/laboratory courses in geology and one 3-hour course in astronomy. As a third example, a student might take two chemistry courses, one with lab and one without, and a geology course with lab. Note that a student taking the required 6 hours of one subject (astronomy or physics) from the Department of Physics and Astronomy must take the remaining 3 hours from another department. ASTR 1110 Descriptive Astronomy does not include laboratory work; ASTR 1212 Intro Astronomy of the Solar System and ASTR 1312 Intro Astronomy of Stars and Galaxies include laboratory work and satisfy the requirements for lab-based science credits. A student may not receive credit for taking ASTR 1110 Descriptive Astronomy with either ASTR 1212 Intro Astronomy of the Solar System or ASTR 1312 Intro Astronomy of Stars and Galaxies.

Major Requirements

Code	Title	Hours
CISE 1011	Computer Science I	3
or CISE 1013	Honors Computer Science I	
CISE 1012	Computer Science II [1]	3
CISE 2011	Computer Science III	3
CSCI 2023	Computer Org. & Assembly Language	3
CSCI 3000	Social Responsibility in Comp. Science	1
CSCI 3075	Introduction to Database Systems	3
CSCI 3087	Software Design and Development	3
CSCI 4023	Introduction to Operating Systems	3
CSCI 4033	Algorithm and Data Structure Analysis	3
CSCI 4050	Formal and Programming Languages	3
CSCI 4996A	Senior Project	3
Select an additional 12 hrs of CISE or CSCI courses at the 3000+ level with a passing grade		12
Total Hours		**43**

[1] Not required if CISE 1013 Honors Computer Science I (honors) completed with a grade of C- or higher, but an additional CIS/CSCI 3000+ course will be required.

Residency Hours

Students must earn at least 12 hours of their major courses in residence.

Resident Major GPA

Please contact your academic advisor for grade point requirements.

Overall Major GPA

Please contact your academic advisor for grade point requirements.

Major Requirements II

Code	Title	Hours
MATH 2611	Unified Calculus & Analytic Geometry I	3
MATH 3010	Discrete Mathematics	3
MATH 3750	Introduction to Statistics I	3
or ECON/ BUSN 2300	Economic Statistics I	
SPCH 1020	Fundamentals of Public Speaking	3
or SPCH 1050	Business and Professional Speech	

Other Academic Requirements

Students planning graduate study in computer science should include CSCI 3011 Models of Computation among their electives.