B.A. in Computer Science

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

REQUIREMENT	HOURS	DESCRIPTION
First Year Writing I	3	Complete Hon 101, Writ 100 or Writ 101 with a passing grade.
First Year Writing II	3	Complete one of the following courses with a passing grade: Liba 102, Writ 102 or Hon 102.
6 hrs literature survey	6	Complete 6 hours of literature survey with a passing grade. Choose from the following courses: Eng 220, 221, 222, 223, 224, 225, or Eng 226.
6 hrs modern/ancient language 200+	6	Successfully complete at least 6 hours at the 200 level or above in one modern or ancient language.
6 hrs history	6	Complete 6 hours in History (HST) course work with a passing grade.
3 hrs humanities	3	Successfully complete 3 hours in one of the following areas: African-American studies; classical civilization; environmental studies (Envs 101); gender studies (G St 201, 301, 333, 350); philosophy; religion; Southern studies (S St 101, 102). In addition, gender studies courses that are cross-listed with African American studies, classical civilization, English, modern languages, philosophy, or religion courses will satisfy this requirement.
6 hrs social science	6	Successfully complete 6 semester hours in anthropology, economics, political science, psychology, or sociology.
3 hrs fine arts	3	The course may be chosen from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Courses that satisfy this requirement are any Art History (AH); Liba 130, 204, 314; Mus 101, 102, 103, 104, 105; Danc 200; Thea 201, 202. Students who have completed 30 semester hours of undergraduate course work may fulfill the requirement with a 300- or 400-level art history course.
3 hrs math 100+	3	Successfully complete 3 hours of Math at the 100 level or above except for Math 245 and Math 246.
9-12 hrs science	9	Complete a full year of science course work in one subject area (6-8 hrs) and complete 3 credit hours in a subject area from another department. Courses may be chosen from the departments of Biology, Chemistry and Biochemistry, Geology and Geological Engineering, or Physics and Astronomy.
2 associated science labs	2	Successfully complete at least two science laboratory courses.

Major Requirements

REQUIREMENT	HOURS	DESCRIPTION
Csci 111 and 112 and 211	9	Csci 111: Computer Science I, CIS 111: Computer Science I, CIS 112: Computer Science II, Csci 112: Computer Science II, Csci 211: Computer Science III, CIS 211: Computer Science III
Csci 223	3	Csci 223: Computer Org. & Assembly Language
Csci 300	1	Csci 300: Social Responsibility in Comp. Science
Csci 423	3	Csci 423: Introduction to Operating Systems
Csci 433	3	Csci 433: Algorithm and Data Structure Analysis
Csci 450	3	Csci 450: Organization of Programming Languages
Csci 487	3	Csci 487: Senior Project

REQUIREMENT	HOURS	DESCRIPTION
Csci electives	12	Csci 356: Data Structures in Python, Csci 323: Systems of Programming, Csci 487: Senior Project, Csci 495: Undergrad Computer Science Internship, Csci 525: Compiler Construction, Csci 312: Algebraic Coding Thry, Csci 300: Social Responsibility in Comp. Science, Csci 506: Computer Data Security, Csci 490: Special Topics, Csci 492: Special Topics in Data Science, Csci 523: Operating Systems, Csci 460: Softward Design & Dev, Csci 570: Tpcs in Thry of Comp, Csci 515: Interfacing Laboratory, Csci 554: Web Architecture and Programming, Csci 343: Fundamentals of Data Science, Csci 311: Models of Computation, Csci 458: Mobile Application Development, Csci 590: Tpcs in Digital Tech, Csci 530: Computer Architecture and Design, Csci 560: Tpcs/Comm Technology, Csci 302: Discrete Structures II, Csci 431: Robotics Programming, Csci 322: Arch/Systems Prog I, Csci 543: Data Mining, Csci 551: Computer System Performance Analysis, Csci 423: Introduction to Operating Systems, Csci 390: Special Topics in Programming, Csci 405: Computer Simulation, Csci 411: Algorthm/Data Str Anal, Csci 557: GPU Computing, Csci 443: Advanced Data Science, Csci 563: Fault Tolerant Cmpting, Csci 562: Software Engineering I, Csci 543: Fractal Programming, Csci 550: Program Semantics and Derivation, Csci 491: Special Topics in Computer Security, Csci 481: Senior Seminar, Csci 350: Software Design & Dev, Csci 361: Introduction to Computer Networks, Csci 575: Database Systems, Csci 517: Natural Language Processing, Csci 526: Parallel Computing, Csci 387: Software Design and Development, Csci 561: Computer Networks, Csci 520: Formal Theory of Computer Languages, Csci 461: Algebraic Coding Thry, Csci 492: Senior Project II, Csci 585: Data Base Design/Mgmt, Csci 351: Mini Computers, Csci 444: Multimedia Design and Development, Csci 301: Discrete Structures I, Csci 354: Web Programming, Csci 475: Introduction to Database Systems, Csci 426: System Security, Csci 491: Senior Project I, Csci 305: Software for Global Use, Csci 541: Expert Systems and Logic Programming, Csci 427: Fundamentals of Computer Security, Csci 450: Organization of Programming Languages, Csci 531: Artificial Intelligence, Csci 555: Functional Programming, Csci 447: Immersive Media, Csci 581: Special Topics in Computer Science I, Csci 524: Distributed Operating System Design, Csci 521: Computer Systems Engineering, Csci 595: Graduate Computer Science Internship, Csci 582: Special Topics in Computer Science II, Csci 391: Computer Graphics, Csci 533: Analysis of Algorithms, Csci 333: Digital Design and 3-D Printing, Csci 547: Digital Image Processing, Csci 556: Multiparadigm Programming, Csci 433: Algorithm and Data Structure Analysis, Csci 325: Foundations of Computer Security, Csci 353: Introduction to Numerical Methods, Csci 352: Minicomp-Proc Control, Csci 345: Information Storage and Retrieval
CSCI residency hrs	12	Student 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

REQUIREMENT	HOURS	DESCRIPTION
Math 261	3	Complete Math 261 with a passing grade.
Math 262	3	Complete Math 262 with a passing grade.
Math 263/302/319	3	Complete one of the following courses: Math 263, Math 302, or Math 319.
Math 301	3	Complete Math 301 with a passing grade.
Math 375	3	Complete Math 375 with a passing grade.