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	Complete 3 hours in the area of fine or performing arts. Choose from art history, music, dance, and theatre arts. Studio and workshop courses cannot be used to satisfy this requirement. Acceptable freshman or sophommore-level courses are: AH 101, AH 102, AH 201, AH 202; Music 101, Music 102, Music 103, Music 104, Music 105; Dance 200; and Theatre 201.
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, Csci 112: Computer Science II, Csci 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 387: Software Design and Development, Csci 391: Computer Graphics, Csci 562: Software Engineering I, Csci 423: Introduction to Operating Systems, Csci 585: Data Base Design/Mgmt, Csci 490: Special Topics, Csci 517: Natural Language Processing, Csci 520: Formal Theory of Computer Languages, Csci 491: Special Topics in Computer Security, Csci 563: Fault Tolerant Cmpting, Csci 301: Discrete Structures I, Csci 530: Computer Architecture and Design, Csci 447: Immersive Media, Csci 354: Web Programming, Csci 322: Arch/Systems Prog I, Csci 475: Introduction to Database Systems, Csci 492: Special Topics in Data Science, Csci 458: Mobile Application Development, Csci 356: Data Structures in Python, Csci 443: Advanced Data Science, Csci 506: Computer Data Security, Csci 405: Computer Simulation, Csci 444: Multimedia Design and Development, Csci 433: Algorithm and Data Structure Analysis, Csci 561: Computer Networks, Csci 450: Organization of Programming Languages, Csci 555: Functional Programming, Csci 312: Algebraic Coding Thry, Csci 550: Program Semantics and Derivation, Csci 543: Fractal Programming, Csci 492: Senior Project II, Csci 305: Software for Global Use, Csci 526: Parallel Computing, Csci 515: Interfacing Laboratory, Csci 556: Multiparadigm Programming, Csci 411: Algorithm/Data Str Anal, Csci 350: Software Design & Dev, Csci 575: Database Systems, Csci 311: Models of Computation, Csci 351: Mini Computers, Csci 560: Tpcs/Comm Technology, Csci 543: Data Mining, Csci 557: GPU Computing, Csci 495: Undergrad Computer Science Internship, Csci 361: Introduction to Computer Networks, Csci 352: Minicomp-Proc Control, Csci 343: Fundamentals of Data Science, Csci 554: Web Architecture and Programming, Csci 325: Foundations of Computer Security, Csci 323: Systems of Programming, Csci 333: Digital Design and 3-D Printing, Csci 595: Graduate Computer Science Internship, Csci 487: Senior Project, Csci 390: Special Topics in Programming, Csci 460: Softward Design & Dev, Csci 491: Senior Project I, Csci 431: Robotics Programming, Csci 524: Distributed Operating System Design, Csci 582: Special Topics in Computer Science II, Csci 525: Compiler Construction, Csci 531: Artificial Intelligence, Csci 302: Discrete Structures II, Csci 581: Special Topics in Computer Science I, Csci 300: Social Responsibility in Comp. Science, Csci 551: Computer System Performance Analysis, Csci 481: Senior Seminar, Csci 523: Operating Systems, Csci 541: Expert Systems and Logic Programming, Csci 590: Tpcs in Digital Tech, Csci 461: Algebraic Coding Thry, Csci 533: Analysis of Algorithms, Csci 570: Tpcs in Thry of Comp, Csci 547: Digital Image Processing, Csci 521: Computer Systems Engineering, Csci 353: Introduction to Numerical Methods, Csci 426: System Security, Csci 345: Information Storage and Retrieval, Csci 427: Fundamentals of Computer Security
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.