

Mississippi State University
Bachelor of Science - Computer Science

Last updated 2015 - 2016
 Illustrative Schedule of Courses

Freshman Year

First Semester	Second Semester
CSE 1002 Intro to CSE2	CSE 1384 Inter Computer Programming 4
MA 1713 Calculus I.....3	MA 1723 Calculus II 3
CH 1213 Chemistry.....3	EN 1113 English Composition II.....3
CH 1211 Chemistry Lab.....1	CSE 2813 Discrete Structures 3
EN 1103 English Composition I3	CO 1003 Public Speaking..... 3
CSE 1284 Intro Computer Programming4	
Total Credit Hours..... 16	Total Credit Hours 16

Sophomore Year

First Semester	Second Semester
CSE 2383 Data Struct & Ana. of Algorithms3	CSE 4503 Database Systems. 3
ECE 3714 Dig. Dev. & Logic Des4	ECE 3724 Microprocessors I 4
MA 2733 Calculus III3	Fine Art Elective..... 3
PH 2213 Physics I.....3	PH 2223 Physics II 3
Humanities Elective3	MA 3113 Linear Algebra..... 3
Total Credit Hours 16	Total Credit Hours 16

Junior Year

First Semester	Second Semester
CSE 4733 Operating Systems3	CSE 4713 Programming Languages 3
CSE 3813 Formal Languages3	Technical Elective* 3
BIO 1134 Biology I.....4	IE 4613 Engineering Statistics I..... 3
Computer Science Electives** 3	Social Science Elective 3
CSE 3324 Distributed Client/Server Prog4	International/Intercultural Study 3
Total Credit Hours 17	Total Credit Hours 15

Senior Year

First Semester	Second Semester
CSE 4833 Intro to Analysis of Algorithms..... 3	CSE 3981 Social & Ethical Issues 1
Computer Science Electives** 6	ECE 4713 Computer Architecture 3
Free Elective.....4	Computer Science Electives** 3
Social Science Elective3	GE 3513 Technical Writing 3
	Humanities Elective 3
	Free Elective 3
Total Credit Hours 16	Total Credit Hours..... 16
	Total Hours..... 128

* Select from technical elective list

** Upper-level CSE electives selected from list available in the department.

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Degree Requirements
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Communication Skills (12 Hours)	
English Composition	6
Oral Communication (CO 1003).....	3
Technical Writing (GE 3513).....	3
Fine Arts, Humanities, Social Studies (18 Hours)	
Fine Arts Elective.....	3
Humanities Electives (2)	6
Social Science Electives (2)	6
International/Intercultural Studies	3
Natural Sciences (14 Hours)	
Biology (BIO 1134)	4
Chemistry and lab (CH 1213/1211)	4
Physics (PH 2213/2223)	6
Mathematics (18 Hours)	
Discrete Math (CSE 2813).....	3
Calculus (MA 1713/1723/2733)	9
Linear Algebra (MA 3113)	3
Probability and Statistics (IE 4613).....	3
Technical Electives (3 Hours)	
Electives (select from list below)	3
<small>Calculus IV (MA 2743); Differential Equations (MA 3253); Numerical Analysis (MA 4313); Probability (MA 4523); Engineering Economy (IE 3913); Simulation (IE 4773); Project Management (IE 4533); Engineering Administration (IE 4513); Statistics II (IE 4624); Operations Research (IE 4713); Microprocessors II (ECE 4723); Adv. Microprocessors (ECE 4733); Digital Systems Design (ECE 4743); any upper-level computer science course.</small>	
Computer Science (56 Hours)	
Introduction to CSE (CSE 1002).....	2
Introduction to Computer Programming (CSE 1284).....	4
Intermediate Computer Programming (CSE 1384)	4
Data Structures and Analysis of Algorithms (CSE 2383)	3
Database Systems (CSE4503).....	3
Distributed Client/Server Programming (CSE 3324)	4
Digital Devices (ECE 3714).....	4
Microprocessors I (ECE 3724).....	4
Formal Languages (CSE 3813)	3
Social and Ethical Issues (CSE 3981)	1
Computer Architecture (ECE 4713).....	3
Programming Languages (CSE 4713).....	3
Operating Systems (CSE 4733).....	3
Introduction to Analysis of Algorithms (CSE 4833)	3
Computer Science Electives (upper level, from approved list)	12
Group 1 CSE electives (each student must take at least 2 of these courses): CSE 4153, CSE 4163, CSE 4214, CSE 4413, CSE 4453, CSE 4633	
Group 2 CSE electives (6 hours): Any Group 1 elective, Any Upper-Level (3000- or 4000-level) CSE course not required elsewhere	
Free Electives (7 Hours).....	7
Total Hours	128