PURDUE UNIVERSITY

Computer Science
College of Science

Code - BS
Code – CS
120 cr for graduation
"C" or better in all major courses

Computer Science Major Courses (46-50 credits)

Required CS Major Math Courses (7-8 credits) (must have C or better to meet prerequisite for certain upper level CS courses)

_____ (4-5) MA 26100 or MA 27101
_____ (3) MA 26500 or MA 35100

Required CS Major Core Courses (21 credits) (must have C or better in all courses)

_____ (4) CS 18000[CC] Problem Solving & Object Oriented Programming (satisfies CoS Computing and Teambuilding requirements)
_____ (3) CS 18200 Foundations of Computer Science
_____ (3) CS 24000 Programming in C
_____ (4) CS 25000 Computer Architecture
_____ (3) CS 25100 Data Structures & Algorithms
_____ (4) CS 25200 Systems Programming

Required CS Major Track Selectives – (18-21 credits) (must have C or better in all courses) *select from list*

_____ (3) CS Track Required course
_____ (3) CS Track Required Course
_____ (3) CS Track Required/Elective course
_____ (3) CS Track Required/Elective course
_____ (3) CS Track Elective course
_____ (3) CS Track Elective course
_____ (3) CS Track Elective course *(if Computational Science & Engineering track or Database & Information Systems track)*

Other Departmental/Program Course Requirements (35-62 credits)

_____ (3-4) ENGL 10600 or ENGL 10800 or HONR 19903 - ***(satisfies Written Communication and Information Literacy)***
_____ (3-6) Technical Writing Option and Technical Presenting Option (COM 21700 recommended) ***(Select courses COULD satisfy Oral Communication for core)***
_____ (0-4) Language I* – *select from three options; select from list*
_____ (0-4) Language II* – *select from three options; select from list*
_____ (0-4) Language and Culture III* – ***(may satisfy Human Cultures Humanities)*** *select from three options; select from list*
_____ (3) General Education I – ***(may satisfy Human Culture Humanities and Behavioral/Social Science)*** *select from list*
_____ (3) General Education II – ***(may satisfy Human Culture Humanities and Behavioral/Social Science)*** *select from list*
_____ (3) General Education III – *select from list*
_____ (3) Great Issues –*select from list*
_____ (0-3) Multidisciplinary Experience* – ***(may satisfy Science, Technology & Society)*** *select from list*
_____ (0-4) Teambuilding and Collaboration Experience* (CS 18000 meets requirement) *select from list*
_____ (3-4) Lab Science I selective – ***(satisfies Science)*** *select from list*
_____ (3-4) Lab Science II selective – ***(may satisfy Science)*** *select from list*
_____ (4-5) MA 16100[CC] or MA 16500[CC] ***(satisfies Quantitative Reasoning)*** ***(must have C or better to meet prerequisite for CS 182)***
_____ (4-5) MA 16200 or MA 16600 ***(satisfies Quantitative Reasoning)***
_____ (3) STAT 35000 or STAT 51100

*Requirement may be met with a zero credit experiential learning option. See your advisor for more information

Electives (8-39 credits)

_____ (1)_____ ____(1) _____ ____( ) _____ ____( ) _____
_____ (1)_____ ____( ) _____ ____( ) _____ ____( ) _____
_____ (1)_____ ____( ) _____ ____( ) _____ ____( ) _____

* Required freshman seminar courses; corequisites with CS 17700 or CS 18000. They are not degree requirements. CS 291 sophomore seminar and CS 391 junior seminar are optional but recommended.

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University Core Requirements

Human Cultures Humanities	☐_____	*Science, Technology & Society Selective*	☐_____
Human Cultures Behavioral/Social Science	☐_____	*Written Communication*	☐_____
Information Literacy	☐_____	*Oral Communication*	☐_____
Science Selective	☐_____	*Quantitative Reasoning*	☐_____
Science Selective	☐_____		

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The student is ultimately responsible for knowing and completing all degree requirements.
MyPurdue Plan is knowledge source for specific requirements and completion.

Fall 2016

Computer Science Suggested Arrangement of Courses (Fall 2016):

Credits	**Fall 1st Year**	**Prerequisite**	Credits	**Spring 1st Year**	**Prerequisite**
4	CS 18000[CC] *** meets Computing and Teambuilding and Collaboration Requirement	Co-req MA 16100 or MA 16500	3	CS 18200 ***	CS 18000 & (MA 16100 or MA 16500)
1	Free elective (rec. CS 19100)	Co-rec CS 18000	3	CS 24000 ***	CS 18000 & Co-req CS 18200
4-5	MA 16100[CC] or MA 16500[CC]	ALEKS score 85+	4-5	MA 16200 or MA 16600	MA 16100 or MA 16500
3-4	ENGL 10600/10800/HONR 19903 OR Language 10100		3-4	Language 10100 OR ENGL 10600/10800/HONR 19903	
1	Free elective (rec. CS 19000 Tools)	Co-req CS 19100	1-3	Free elective/minor	
1	Free elective				
14-16			14-16		

Credits	**Fall 2nd Year**	**Prerequisite**	Credits	**Spring 2nd Year**	**Prerequisite**
4	CS 25000 ***	CS 18200 & CS 24000	4	CS 25200 ***	CS 25000 & Co-req CS 25100
3	CS 25100 ***	CS 18200 & CS 24000	3	MA 26500 or MA 35100	MA 16200 or MA 16500 & (co-req MA 26100 or MA 27101)
4-5	MA 26100 or MA 27101	MA 16200 or MA 16600	3	Language 20100/Culture or Diversity course	Lang 10200
3-4	Language 10200	Lang 10100	3	RECOMMENDED: COM 21700 Technical Writing Option and Technical Presenting Option	
1	Free elective (Rec. CS 29100)		3	Free elective/minor	
15-17			16		

Credits	**Fall 3rd Year**	**Prerequisite**	Credits	**Spring 3rd Year**	**Prerequisite**
3	CS track requirement ***	varies	3	CS track requirement/elective ***	varies
3	CS track requirement ***	varies	3	CS track elective/requirement ***	varies
3	STAT 350/STAT 51100	MA 16200 or MA 16600	3	Great Issues	varies
1	Free elective (Rec. CS 39100)		3	General Education II	
3	General Education I		3	Free elective/minor	
3	Free elective/minor				
16			15		

Credits	**Fall 4th Year**	**Prerequisite**	Credits	**Spring 4th Year**	**Prerequisite**
3	CS track elective ***	varies	3	CS track elective ***	varies
3-4	Lab Science I	varies	3-4	Lab Science II	Lab I
3	Multidisciplinary Experience/Free Elective/Minor	varies	3	Free elective/minor	
3	General Education III		3	Free elective/minor	
3	Free elective/minor		3	Free elective/minor	
15-16			15-16		

120 semester credits required for Bachelor of Science degree.
2.0 Major and Graduation GPA required for Bachelor of Science degree.
Superscript of CC (eg CS 18000[cc]) indicates a Critical Course
*****All CS core courses and all track requirements, regardless of department, must be completed with a grade of "C" or higher.**
A**ll prerequisites to CS core courses and track requirements, regardless of department, must be completed with a grade of C or higher.**

The student is ultimately responsible for knowing and completing all degree requirements.
MyPurdue Plan is a knowledge source for specific requirements and completion.

Fall 2016