**GENERAL EDUCATION CORE**  
76 credits

**First Year Seminar**  
___CSCI12000 Windows on Comp. Science*  
*(CSCI12000 is required for freshmen and transfer students with fewer than 30 earned hours)

**Foundational Intellectual Skills**  
Core Communication  
___ENG-W 131 or W140 Elementary Comp I**  
___TCM32000 Written Communication in Science & Industry (junior standing required)**  
___COMM-R 110 Speech  
**C or above is required in ENG-W131/140 and TCM32000

**Analytical Reasoning**  
___MATH16500 Calculus I  
___MATH16600 Calculus II  
___MATH17100 Multidimensional Math  
___STAT35000, 41600 or 51100 Statistics

**Intellectual Breadth and Adaptiveness**  
Arts, Humanities & Social Sciences—must choose 1-2 from Arts and Humanities list and 1-2 from Social Science list  
___PSY-B 110 Intro to Psychology (SS)  
___SOC-R 100 Intro to Sociology (SS)  
__________________________ (AH)

**Cultural Understanding**  
____________________________ (3)

For the list of approved General Education Core courses in Cultural Understanding, Arts & Humanities, please see: [http://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx](http://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx)

**Life and Physical Sciences**  
___BIOL-K101 Concepts of Biology I  
___BIOL-K103 Concepts of Biology II  
___CHEM-C105 Principles of Chemistry I  
___CHEM-C125 Experimental Chemistry I  
___CHEM-C106 Principles of Chemistry II  
___CHEM-C126 Experimental Chemistry II  
___CHEM-C341 Organic Chemistry I  
___CHEM-C343 Organic Chemistry I Lab  
___CHEM-C342 Organic Chemistry II  
___CHEM-C344 Organic Chemistry II Lab  
___PHYS-P201 General Physics I  
___PHYS-P202 General Physics II  
___BIOL-K 384 or CHEM-C 384 Biochemistry

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**Computer Science Major Courses**  
44 credits

Minimum Grade=C-, Minimum 2.0 Average

**Core Courses**  
___CSCI 23000 Computing I [C: MATH 15300]  
___CSCI 24000 Computing II [P: 23000 & MATH 15300]  
___CSCI 34000 Discrete Computational Structures  
___CSCI 36200 [P: 24000 and 34000] Data Structures  
___CSCI 40200 Computer Architecture [P: 34000]  
___CSCI 40300 Operating Systems [P: 36200 & 40200]  
___Capstone Experience (Senior Year):  

For each course, students may take the capstone research project course (CSCI 49500) or may complete capstone internship (CSCI 49600) per approval

**Computer Science and Supporting Course Electives**  
Computer Science-Biocomputing majors take 6 major elective courses, up to three of which may be approved N-series CSCI courses.

____________________________ (3)  
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Total_____

Total of 120 credits required for degree completion.
Degree Requirements

1. Must earn minimum 120 hours
2. Must take minimum 32 hours of 300/400 level courses at IUPUI
3. One grade of D+ or D is allowed in Math and one grade of D+ or D is allowed in Life and Physical Sciences.

May Take Up to 3 Courses From List:

CSCI-N Series & 300 Level Electives*
CSCI-300 Systems Programming
CSCI-355 Intro to Programming Languages
CSCI-363 Software Design
CSCI-N300 Mobile Computing Fundamentals
CSCI-N305 C Language Programming
CSCI-N311 Advanced Database Programming, Oracle
CSCI-N317 Comp. for Scientific Applications
CSCI-N321 System and Network Administration
CSCI-N335 Advanced Programming, Visual Basic
CSCI-N341 Client Side Web Programming
CSCI-N342 Server Side Web Development
CSCI-N343 Object-Oriented Programming for the Web
CSCI-N345 Advanced Programming, Java
CSCI-N351 Intro to Multimedia Programming
CSCI-N355 Intro to Virtual Reality
CSCI-N361 Software Project Management
CSCI-N410 Mobile Computing Application Development
CSCI-N420 Mobile Computing Cross Platform Development
CSCI-N430 Mobile Computing and Interactive Applications
CSCI-N431 E-Commerce with ASP.NET
CSCI-N435 Data Management Best Practices with ADO.NET
CSCI-N443 XML Programming
CSCI-N450 Mobile Computing with Web Services
CSCI-N461 Software Engineering for Applied Computer Science
CSCI-N499 Topics in Applied Computing (topic varies)

*Please note that the courses above may require pre-requisites. Be sure to plan accordingly.