

Computer Science Major Elective Approval Form

2014-2015 Start Year: 20 units needed

2016-2017 Start Year: 24 units needed

2015-2016 Start Year: 24 units needed

2017-2018 Start Year: 28 units needed

Student's Name: Last, First, Middle

Student's Email

Student's Phone Number

Student's Perm Number

I have received sufficient faculty advising to make an informed choice and I consider the following course(s) appropriate electives to supplement my Computer Science major:

Course Department	Course Number	Course Name	# of Units

Student's Signature

Date

FOR ANY CS DEPARTMENT FACULTY MEMBER

Number of upper division major elective units needed: _____

I have seen this student's program and believe that the course(s) listed represent an appropriate selection of elective(s).

Faculty Member's Last name

Signature

Date

Upper Division Elective List

5/10/17

Programming Languages	
CMPSC 160/162*	Translation of Programming Language/Programming Languages *(One course required for the major. The second will apply towards the Major Electives)
Communication Networks	
CMPSC 176A	Introduction to Computer Communication Networks
CMPSC 176B	Network Computing
CMPSC 176C	Advanced Topics in Internet Computing
Software Systems	
CMPSC 171/ECE 151	Distributed Systems
CMPSC 174A	Fundamentals of Database Systems
CMPSC 174B	Design and Implementation Techniques of Database Systems
CMPSC 180	Computer Graphics
Computer Security	
CMPSC 177	Computer Security
CMPSC 178	Introduction to Cryptography
Artificial Intelligence	
CMPSC 165A	Artificial Intelligence
CMPSC 165B	Machine Learning
CMPSC/ECE 181B	Introduction to Computer Vision
Vision and Graphics	
CMPSC 180	Computer Graphics
CMPSC/ECE 181B	Introduction to Digital Image and Video Processing
CMPSC 182/ECE 160	Multimedia Computing
Interactivity	
CMPSC 180	Computer Graphics
CMPSC/ECE 181B	Introduction to Computer Vision
CMPSC 185	Human-Computer Interaction
CMPSC 182/ECE 160	Multimedia Computing
Undergraduate Projects, Special Topics, and Research	
CMPSC 189A/B	Senior Computer Systems Project (CAPSTONE)
CMPSC 190AA-ZZ	Special Topics in Computer Science
CMPSC 192	Projects in Computer Science (Only available to students with GPA = 3.0, Four units maximum from CMPSC 192 and CMPSC 196 combined may be counted as upper division electives)
CMPSC 196	Undergraduate Research (Only available to students with GPA = 3.0, Four units maximum from CMPSC 192 and CMPSC 196 combined may be counted as upper division electives)
Hardware	
CMPSC/ECE 153A	Hardware/Software Interface
ECE 153B	Sensor and Peripheral Interface Design
Signal Processing	
ECE 130A/B/C	Signal Analysis and Processing
Scientific Computing	
CMPSC 111/140*	Introduction to Computational Science/Parallel Scientific Computing *(One course required for the major. The second will apply towards the Major Electives)
MATH 108A/B	Linear Algebra
MATH 119A/B	ODEs
MATH 124A/B	PDEs, Fourier Series and Numerical Methods
PSTAT and Mathematics	
PSTAT 122/130	Probability and Statistics
PSTAT 160A/B	Applied Stochastic Processes

