COMPUTER SCIENCE BS/MS ELECTIVE COURSE LISTS

- **For most current course lists, please consult the School of Computer Science.**

APPROVED C S ELECTIVES

Code	Title	Credit Hours
C S 4013	Artificial Intelligence	3
C S 4023	Introduction to Intelligent Robotics	3
C S 4033	Machine Learning Fundamentals	3
C S 4053	Computer Graphics	3
C S 4063	Human Computer Interaction	3
C S 4113	Distributed Operating Systems	3
C S 4133	Data Networks	3
C S 4323	Compiler Construction	3
C S 4433	Computational Methods in Discrete Optimization	3
C S 4613	Computer Architecture	3
C S 4823	Cryptography	3
C S 4973	Special Topics	3

APPROVE TECHNICAL ELECTIVES

Code	Title	Credit Hours
Approved CS Electives Research-related CS classes:		
C S 3440	Mentored Research Experience	3
C S 3960	Honors Reading	1-3
C S 3980	Honors Research	1-3
C S 3990	Independent Study	1-3
C S 4910	Senior Reading and Research	1-3
All C S 4000+ Courses		
ENGR 4013	Leadership and Management for Engineers	3
ENGR 4510	Selected Topics	1-6
ENGR 4003	Engineering Practice	3
MATH 2443	Calculus and Analytic Geometry IV	3
or MATH 2934	Differential and Integral Calculus III	
All 3000 or 4000 level Mathematics classes		
All 3000 or 4000 level Electrical and Computer Engineering classes		

APPROVED C S SCIENCE ELECTIVES

Code	Title	Credit Hours
CHEM 1315	General Chemistry	5
CHEM 1415	General Chemistry (Continued)	5
PHYS 2514	General Physics for Engineering and Science Majors	4
PHYS 1311	General Physics Lab I	1
PHYS 1205	Introductory Physics I for Physics Majors	5
BIOL 1013	Introduction to Biology	3
BIOL 1124	Intro Biol: Molecule/Cell/Phys	4
METR 2603	Severe and Unusual Weather	3
GEOL 1033	Earth, Energy, Environment	3
GEOL 1114	Physical Geology for Science and Engineering Majors	4
GEOG 1114	Physical Geography	4
ASTR 1523	Life in the Universe	3
Other classes approved by the CS Undergraduate Committee		

Approved Graduate C S Electives

Code	Title	Credit Hours
C S 4323	Compiler Construction	3
C S 4613	Computer Architecture	3
C S 4973	Special Topics	3
Any C S 5000-level course		