

Engineering Science Undergraduate Course Schedule

Spring Term (2174)

Required Courses						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
MATH 0280	16800	Intro to Matrices & Linear Algebra	3	MWF	10:00-10:50am	704 Thackeray
	11741	Intro to Matrices & Linear Algebra	3	MWF	11:00-11:50am	G29 Benedum
	19885	Intro to Matrices & Linear Algebra	3	MWF	1:00-1:50pm	1501 WWPH
	17754	Intro to Matrices & Linear Algebra	3	MWF	2:00-2:50pm	G29 Benedum
MATH 0290	12326	Differential Equations	3	MWF	10:00-10:50am	207 Lawrence
	11742	Differential Equations	3	MWF	11:00-11:50am	207 Lawrence
	11743	Differential Equations	3	MWF	10:00-10:50am	G8 CL
	24907	Differential Equations	3	MWF	12:00-12:50pm	1500 WWPH
	19248	Differential Equations	3	TuTh	4:00-5:15pm	107 Lawrence
	11744	Differential Equations	3	MW	6:00-7:15pm	704 Thackeray
	27218	Differential Equations	3	MWF	1:00-1:50pm	704 Thackeray
PHYS 0219	10143	Basic Lab Physics, Science & Engineering	2	M	3:00-3:50pm	102 Thaw
	10144	<i>lab</i>	0	M	6:00-8:50pm	408 OEH
	11457	<i>lab</i>	0	W	2:00-4:50pm	408 OEH
	10146	<i>lab</i>	0	Th	1:00-3:50pm	408 OEH
PHYS 0481	11370	Principles of Modern Physics 2	3	MWF	11:00-11:50am	11 Thaw
ENGR 0022	13480	Materials Structure & Properties	3	MWF	1:00-1:50pm	G30 Benedum
	13481	<i>recitation</i>	0	M	4:00-4:50pm	G29 Benedum
ECE 0031	13178	Linear Circuits and Systems 1	3	MW	4:30-5:45pm	227 Benedum
	13390	<i>recitation</i>	0	W	1:00-1:50pm	227 Benedum
ECE 0257	13418	Analysis & Design of Electronic Circuits	3	TuTh	11:00-12:15pm	G31 Benedum
	27267	Analysis & Design of Electronic Circuits	3	MW	3:00-4:15pm	G30 Benedum
ECE 1201	13392	Electronic Measurements & Circuits Lab	3	M	1:00-2:50pm	1223 Benedum
	13393	<i>lab</i>	0	W	1:00-3:50pm	1223 Benedum
ECE 1212	13406	Electronic Circuit Design Lab	3	Tu	9:00-10:50am	1223 Benedum
	13407	<i>lab</i>	0	Th	9:00-11:50am	1223 Benedum
ECE 1247	13512	Semiconductor Device Theory	3	TuTh	4:00-5:15pm	G31 Benedum
ECE 1552	13195	Signals & Systems Analysis	3	TuTh	9:30-10:45am	227 Benedum
	23812	<i>recitation</i>	3	Th	11:00-11:50am	G36 Benedum
MEMS 0031	15434	Electrical Circuits	3	MWF	5:00-5:50pm	157 Benedum
MEMS 0031	30527	Electrical Circuits	3	MWF	9:00-9:50am	150 Chevron
MEMS 0051	15437	Introduction to Thermodynamics (ME focus)	3	MWF	9:00-9:50am	157 Benedum
	30528	Introduction to Thermodynamics (ME focus)	3	MWF	5:00-5:50pm	A224 Langley
	23795	Introduction to Thermodynamics (MSE focus)	3	MWF	9:00-9:50am	G27 Benedum
MEMS 1043	18041	Senior Design Project	3	TuTh	11:00-12:25pm	318 Benedum
MEMS 1063	20009	Phase Transformations	3	MWF	3:00-3:50pm	G37 Benedum
MEMS 1085	15439	Departmental Seminar	0	Tu	11:00-11:50am	121 Lawrence
ENGSCI 1801	23253	Engineering Design 1	3	TBA	TBA	
ENGSCI 1802	23254	Engineering Design 2	3	TBA	TBA	

† Department Consent Required

‡ Instructor Consent Required

Engineering Science Undergraduate Course Schedule

Spring Term (2174)

Electives						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
ECE 1232	13241	Intro to Lasers & Optical Electronics	3	Tu	6:00-8:30pm	227 Benedum
ECE 2295†	29563	Special Topics: Electronics	3	Tu	5:20-7:50pm	G31 Benedum
MATH 1080	25879	Numerical Math: Linear Algebra	3	MWF	10:00-10:50am	316 OEH
	11202	Numerical Math: Linear Algebra	3	MW	3:00-4:15pm	704 Thackeray
MATH 1180	18530	Linear Algebra 1	3	MWF	10:00-10:50am	1045 Benedum
	10105	Linear Algebra 1	3	MWF	11:00-11:50am	G36 Benedum
	23729	Linear Algebra 1	3	MWF	12:00-12:50pm	704 Thackeray
MATH 1250	23442	Abstract Algebra	3	MWF	12:00-12:50pm	G36 Benedum
MATH 1270	10106	Ordinary Differential Equations 1	3	MWF	12:00-12:50pm	103 Allen
	11451	Ordinary Differential Equations 1	3	TuTh	4:00-5:15pm	213 CL
MATH 1280	11745	Ordinary Differential Equations 2	3	MWF	10:00-10:50am	525 Thackeray
MATH 1290	10703	Topics in Geometry	3	MWF	11:00-11:50am	1045 Benedum
MATH 1310	30835	Graph Theory	3	MWF	1:00-1:50pm	204 CL
MATH 1370	29244	Introduction to Computational Neurosci	3	TuTh	4:00-5:15pm	525 Thackeray
MATH 1540	26353	Advanced Calculus 2	3	MWF	3:00-4:15pm	627 Thackeray
	26354	<i>recitation</i>	0	Th	3:00-3:50pm	A522 PH
	17865	Advanced Calculus 2	3	MWF	11:00-11:50am	525 Thackeray
	17866	<i>recitation</i>	0	Tu	10:00-10:50am	G36 Benedum
MATH 1560	19886	Complex Variables & Applications	3	MWF	2:00-2:50pm	139 CL
PHYS 1331	24321	Mechanics	3	MWF	1:00-1:50pm	103 Allen
PHYS 1341	10160	Thermodynamics & Statistical Mechanics	3	TuTh	9:30-10:45am	102 Thaw
PHYS 1371	10162	Intro to Quantum Mechanics 2	3	MWF	11:00-11:50am	102 Thaw
PHYS 1372	11308	Electromagnetic Theory	3	MWF	10:00-10:50am	105 Allen
PHYS 1375	29787	Foundations of Nanoscience	3	MWF	3:00-3:50pm	106 Allen
PHYS 1378	29788	Intro to Nuclear and Particle Physics	3	MWF	2:00-2:50pm	106 Allen
PHYS 1426	10156	Modern Physics Laboratory	2	Th	11:00-11:50am	106 Allen
	10157	<i>lab</i>	0	Th	1:00-3:50pm	318 OEH
ENGR 1090†	30508	Engineering Cooperative Program†	1			

Engineering Science Nanotechnology (Phys/Matls) Undergraduate Course Schedule Spring Term (2174)

Required Courses						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
MATH 0280	16800	Intro to Matrices & Linear Algebra	3	MWF	10:00-10:50am	704 Thackeray
	11741	Intro to Matrices & Linear Algebra	3	MWF	11:00-11:50am	G29 Benedum
	19885	Intro to Matrices & Linear Algebra	3	MWF	1:00-1:50pm	1501 WWPH
	17754	Intro to Matrices & Linear Algebra	3	MWF	2:00-2:50pm	G29 Benedum
MATH 0290	12326	Differential Equations	3	MWF	10:00-10:50am	207 Lawrence
	11742	Differential Equations	3	MWF	11:00-11:50am	207 Lawrence
	11743	Differential Equations	3	MWF	10:00-10:50am	G8 CL
	24907	Differential Equations	3	MWF	12:00-12:50pm	1500 WWPH
	19248	Differential Equations	3	TuTh	4:00-5:15pm	107 Lawrence
	11744	Differential Equations	3	MW	6:00-7:15pm	704 Thackeray
	27218	Differential Equations	3	MWF	1:00-1:50pm	704 Thackeray
	ENGR 0020	13604	Probability & Statistics for Engineers	3	TuTh	4:00-5:15pm
13605		<i>recitation</i>	0	F	9:00-10:50am	G26 Benedum
13606		<i>recitation</i>	0	F	1:00-2:50pm	G37 Benedum
13151		Probability & Statistics for Engineers	3	TuTh	9:30-10:45am	G31 Benedum
13155		<i>recitation</i>	0	F	1:00-2:50pm	G26 Benedum
13154		<i>recitation</i>	0	F	9:00-10:50am	G28 Benedum
ENGR 0022		13480	Materials Structure & Properties	3	MWF	1:00-1:50pm
	13481	<i>recitation</i>	0	M	4:00-4:50pm	G29 Benedum
ECE 0031	13178	Linear Circuits and Systems 1	3	MW	4:30-5:45pm	227 Benedum
	13390	<i>recitation</i>	0	W	1:00-1:50pm	227 Benedum
ECE 0257	13418	Analysis & Design of Electronic Circuits	3	TuTh	11:00-12:15pm	G31 Benedum
	27267	Analysis & Design of Electronic Circuits	3	MW	3:00-4:15pm	G30 Benedum
MEMS 0031	15434	Electrical Circuits	3	MWF	5:00-5:50pm	157 Benedum
MEMS 0031	30527	Electrical Circuits	3	MWF	9:00-9:50am	150 Chevron
MEMS 0051	15437	Introduction to Thermodynamics (ME focus)	3	MWF	9:00-9:50am	157 Benedum
	30528	Introduction to Thermodynamics (ME focus)	3	MWF	5:00-5:50pm	A224 Langley
	23795	Introduction to Thermodynamics (MSE focus)	3	MWF	9:00-9:50am	G27 Benedum
MEMS 1011	16797	Structure & Properties Lab	2	TuTh	1:00-3:50pm	G24 Benedum
MEMS 1043	18041	Senior Design Project	3	TuTh	11:00-12:25pm	318 Benedum
MEMS 1063	20009	Phase Transformations	3	MWF	3:00-3:50pm	G37 Benedum
MEMS 1085	15439	Departmental Seminar	0	Tu	11:00-11:50am	121 Lawrence
ENGSCI 1801	23253	Engineering Design 1	3	TBA	TBA	
ENGSCI 1802	23254	Engineering Design 2	3	TBA	TBA	

† Department Consent Required

‡ Instructor Consent Required

Engineering Science Nanotechnology (Phys/Matls) Undergraduate Course Schedule Spring Term (2174)

Electives						
<u>Subj./Catlg#</u>	<u>Class #</u>	<u>Course</u>	<u>Units</u>	<u>Days</u>	<u>Time</u>	<u>Room</u>
CHEM 1130	10828	Inorganic Chemistry	3	MW	6:00-7:15pm	150 Chevron
	19090	Inorganic Chemistry	3	MWF	2:00-2:50pm	154 Chevron
CHEM 1410	10407	Physical Chemistry 1	3	TuTh	11:00-12:15pm	150 Chevron
	10645	<i>recitation</i>	0	Tu	3:00-3:50pm	150 Chevron
CHEM 1420	10408	Physical Chemistry 2	3	TuTh	9:30-10:45am	150 Chevron
	10646	<i>recitation</i>	0	Tu	4:00-4:50pm	150 Chevron
	10409	Physical Chemistry 2	3	TuTh	6:00-7:15pm	232 Lawrence
	10647	<i>recitation</i>	0	Tu	7:20-8:10pm	206 Eberly
CHEM 1480	10410	Intermediate Physical Chemistry	3	MW	4:00-5:15pm	154 Chevron
MATH 1080	25879	Numerical Math: Linear Algebra	3	MWF	10:00-10:50am	316 OEH
	11202	Numerical Math: Linear Algebra	3	MW	3:00-4:15pm	704 Thackeray
MATH 1180	18530	Linear Algebra 1	3	MWF	10:00-10:50am	1045 Benedum
	10105	Linear Algebra 1	3	MWF	11:00-11:50am	G36 Benedum
	23729	Linear Algebra 1	3	MWF	12:00-12:50pm	704 Thackeray
MATH 1250	23442	Abstract Algebra	3	MWF	12:00-12:50pm	G36 Benedum
MATH 1270	10106	Ordinary Differential Equations 1	3	MWF	12:00-12:50pm	103 Allen
	11451	Ordinary Differential Equations 1	3	TuTh	4:00-5:15pm	213 CL
MATH 1280	11745	Ordinary Differential Equations 2	3	MWF	10:00-10:50am	525 Thackeray
MATH 1290	10703	Topics in Geometry	3	MWF	11:00-11:50am	1045 Benedum
MATH 1310	30835	Graph Theory	3	MWF	1:00-1:50pm	204 CL
MATH 1370	29244	Introduction to Computational Neurosci	3	TuTh	4:00-5:15pm	525 Thackeray
MATH 1540	26353	Advanced Calculus 2	3	MWF	3:00-4:15pm	627 Thackeray
	26354	<i>recitation</i>	0	Th	3:00-3:50pm	A522 PH
	17865	Advanced Calculus 2	3	MWF	11:00-11:50am	525 Thackeray
	17866	<i>recitation</i>	0	Tu	10:00-10:50am	G36 Benedum
MATH 1560	19886	Complex Variables & Applications	3	MWF	2:00-2:50pm	139 CL
PHYS 1331	24321	Mechanics	3	MWF	1:00-1:50pm	103 Allen
PHYS 1341	10160	Thermodynamics & Statistical Mechanics	3	TuTh	9:30-10:45am	102 Thaw
PHYS 1371	10162	Intro to Quantum Mechanics 2	3	MWF	11:00-11:50am	102 Thaw
PHYS 1372	11308	Electromagnetic Theory	3	MWF	10:00-10:50am	105 Allen
PHYS 1375	29787	Foundations of Nanoscience	3	MWF	3:00-3:50pm	106 Allen
PHYS 1378	29788	Intro to Nuclear and Particle Physics	3	MWF	2:00-2:50pm	106 Allen
PHYS 1426	10156	Modern Physics Laboratory	2	Th	11:00-11:50am	106 Allen
	10157	<i>lab</i>	0	Th	1:00-3:50pm	318 OEH
ECE 1232	13241	Intro to Lasers & Optical Electronics	3	Tu	6:00-8:30pm	227 Benedum
ECE 1247	13512	Semiconductor Device Theory	3	TuTh	4:00-5:15pm	G31 Benedum
ECE 2295†	29563	Special Topics: Electronics	3	Tu	5:20-7:50pm	G31 Benedum
IE 1012	30851	Manufacture of Structural Nanomaterials	3	Tu	5:20-7:50pm	5203 WWPH
ENGR 1090†	30508	Engineering Cooperative Program†	1			

Engineering Science Nanotechnology (Chem/BioE) Undergraduate Course Schedule Spring Term (2174)

Required Courses						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
MATH 0280	16800	Intro to Matrices & Linear Algebra	3	MWF	10:00-10:50am	704 Thackeray
	11741	Intro to Matrices & Linear Algebra	3	MWF	11:00-11:50am	G29 Benedum
	19885	Intro to Matrices & Linear Algebra	3	MWF	1:00-1:50pm	1501 WWPH
	17754	Intro to Matrices & Linear Algebra	3	MWF	2:00-2:50pm	G29 Benedum
MATH 0290	12326	Differential Equations	3	MWF	10:00-10:50am	207 Lawrence
	11742	Differential Equations	3	MWF	11:00-11:50am	207 Lawrence
	11743	Differential Equations	3	MWF	10:00-10:50am	G8 CL
	24907	Differential Equations	3	MWF	12:00-12:50pm	1500 WWPH
	19248	Differential Equations	3	TuTh	4:00-5:15pm	107 Lawrence
	11744	Differential Equations	3	MW	6:00-7:15pm	704 Thackeray
	27218	Differential Equations	3	MWF	1:00-1:50pm	704 Thackeray
ENGR 0020	13604	Probability & Statistics for Engineers	3	TuTh	4:00-5:15pm	320 Benedum
	13605	<i>recitation</i>	0	F	9:00-10:50am	G26 Benedum
	13606	<i>recitation</i>	0	F	1:00-2:50pm	G37 Benedum
	13151	Probability & Statistics for Engineers	3	TuTh	9:30-10:45am	G31 Benedum
	13155	<i>recitation</i>	0	F	1:00-2:50pm	G26 Benedum
	13154	<i>recitation</i>	0	F	9:00-10:50am	G28 Benedum
ENGR 0022	13480	Materials Structure & Properties	3	MWF	1:00-1:50pm	G30 Benedum
	13481	<i>recitation</i>	0	M	4:00-4:50pm	G29 Benedum
MEMS 0051	15437	Introduction to Thermodynamics (ME focus)	3	MWF	9:00-9:50am	157 Benedum
	30528	Introduction to Thermodynamics (ME focus)	3	MWF	5:00-5:50pm	A224 Langley
	23795	Introduction to Thermodynamics (MSE focus)	3	MWF	9:00-9:50am	G27 Benedum
MEMS 1043	18041	Senior Design Project	3	TuTh	11:00-12:25pm	318 Benedum
MEMS 1063	20009	Phase Transformations	3	MWF	3:00-3:50pm	G37 Benedum
MEMS 1085	15439	Departmental Seminar	0	Tu	11:00-11:50am	121 Lawrence
ENGSCI 1801	23253	Engineering Design 1	3	TBA	TBA	
ENGSCI 1802	23254	Engineering Design 2	3	TBA	TBA	

† Department Consent Required

❖ Core Chemistry Course

‡ Instructor Consent Required

Electives						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
CHEM 0310❖		Organic Chemistry 1	3	<i>see course catalog for options</i>		
CHEM 0320❖		Organic Chemistry 2	3	<i>see course catalog for options</i>		
CHEM 1130❖	10828	Inorganic Chemistry	3	MW	6:00-7:15pm	150 Chevron
	19090	Inorganic Chemistry	3	MWF	2:00-2:50pm	154 Chevron
CHEM 1410❖	10407	Physical Chemistry 1	3	TuTh	11:00-12:15pm	150 Chevron
	10645	<i>recitation</i>	0	Tu	3:00-3:50pm	150 Chevron
CHEM 1420❖	10408	Physical Chemistry 2	3	TuTh	9:30-10:45am	150 Chevron
	10646	<i>recitation</i>	0	Tu	4:00-4:50pm	150 Chevron
	10409	Physical Chemistry 2	3	TuTh	6:00-7:15pm	232 Lawrence
	10647	<i>recitation</i>	0	Tu	7:20-8:10pm	206 Eberly
CHEM 1480	10410	Intermediate Physical Chemistry	3	MW	4:00-5:15pm	154 Chevron
PHYS 1371	10162	Intro to Quantum Mechanics 2	3	MWF	11:00-11:50am	102 Thaw

Engineering Science Nanotechnology (Chem/BioE) Undergraduate Course Schedule Spring Term (2174)

Electives (cont.)						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
ECE 1232	13241	Intro to Lasers & Optical Electronics	3	Tu	6:00-8:30pm	227 Benedum
ECE 1247	13512	Semiconductor Device Theory	3	TuTh	4:00-5:15pm	G31 Benedum
ECE 2295 [†]	29563	Special Topics: Electronics	3	Tu	5:20-7:50pm	G31 Benedum
IE 1012	30851	Manufacture of Structural Nanomaterials	3	Tu	5:20-7:50pm	5203 WWPH
MATH 1080	25879	Numerical Math: Linear Algebra	3	MWF	10:00-10:50am	316 OEH
	11202	Numerical Math: Linear Algebra	3	MW	3:00-4:15pm	704 Thackeray
MATH 1180	18530	Linear Algebra 1	3	MWF	10:00-10:50am	1045 Benedum
	10105	Linear Algebra 1	3	MWF	11:00-11:50am	G36 Benedum
	23729	Linear Algebra 1	3	MWF	12:00-12:50pm	704 Thackeray
MATH 1250	23442	Abstract Algebra	3	MWF	12:00-12:50pm	G36 Benedum
MATH 1270	10106	Ordinary Differential Equations 1	3	MWF	12:00-12:50pm	103 Allen
	11451	Ordinary Differential Equations 1	3	TuTh	4:00-5:15pm	213 CL
MATH 1280	11745	Ordinary Differential Equations 2	3	MWF	10:00-10:50am	525 Thackeray
MATH 1290	10703	Topics in Geometry	3	MWF	11:00-11:50am	1045 Benedum
MATH 1310	30835	Graph Theory	3	MWF	1:00-1:50pm	204 CL
MATH 1370	29244	Introduction to Computational Neurosci	3	TuTh	4:00-5:15pm	525 Thackeray
MATH 1540	26353	Advanced Calculus 2	3	MWF	3:00-4:15pm	627 Thackeray
	26354	<i>recitation</i>	0	Th	3:00-3:50pm	A522 PH
	17865	Advanced Calculus 2	3	MWF	11:00-11:50am	525 Thackeray
	17866	<i>recitation</i>	0	Tu	10:00-10:50am	G36 Benedum
MATH 1560	19886	Complex Variables & Applications	3	MWF	2:00-2:50pm	139 CL
ENGR 1090 [†]	30508	Engineering Cooperative Program [†]	1			

[†] Department Consent Required

❖ Core Chemistry Course

‡ Instructor Consent Required

Basic Lifescience Courses						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
BIOENG 1071	13579	Introductory Cell Biology 2	3	MWF	11:00-11:50am	157 Benedum
	19532	<i>recitation</i>	0	Tu	8:00-8:50am	G27 Benedum
	13580	<i>recitation</i>	0	Tu	9:00-9:50am	G27 Benedum
	13615	<i>recitation</i>	0	Tu	12:00-12:50pm	G29 Benedum
	23183	<i>recitation</i>	0	Tu	4:00-4:50pm	G27 Benedum
	23184	<i>recitation</i>	0	Tu	5:00-5:50pm	G27 Benedum
BIOSC 0150		Foundations of Biology 1	3	<i>see course catalog for options</i>		
BIOSC 0160		Foundations of Biology 2	3	<i>see course catalog for options</i>		
BIOSC 1250	11316	Human Physiology	3	MW	3:00-4:15pm	L9 Clapp
NROSCI 1000	1256	Intro to Neuroscience	3	MWF	2:00-2:50pm	L9 Clapp
NROSCI 1003	10568	UHC Introduction to Neuroscience	3	TuThF	11:00-12:15pm	241 Crawford

Engineering Science Nanotechnology (Chem/BioE) Undergraduate Course Schedule Spring Term (2174)

Core Chemistry Options						
CHEM 0250	10364	Intro to Analytical Chemistry	3	MWF	10:00-10:50am	154 Chevron
	10654	<i>recitation</i>	0	Th	5:00-5:50pm	154 Chevron
CHEM 1250	10891	Instrumental Analysis	3	MWF	11:00-11:50am	150 Chevron
	10955	<i>recitation</i>	0	F	1:00-1:50pm	150 Chevron
	22974	Instrumental Analysis	3	TuTh	6:00-7:15pm	228 Eberly
	22973	<i>recitation</i>	0	Th	7:20-8:10pm	228 Eberly
Core Bioscience Options						
BIOEC 1000	10376	Biochemistry	3	TuTh	2:30-3:45pm	G24 Cl
	20029	<i>recitation</i>	0	Th	4:00-4:50pm	A221 Langley
	19995	<i>recitation</i>	0	F	3:00-3:50pm	A221 Langley
	19996	<i>recitation</i>	0	F	10:00-10:50am	A224 Langley
	18120	Biochemistry	3	TuTh	11:00-12:15pm	L9 Clapp
	19994	<i>recitation</i>	0	Tu	4:00-4:50pm	A221 Langley
	20027	<i>recitation</i>	0	W	9:00-9:50am	169 Crawford
	20028	<i>recitation</i>	0	W	11:00-11:50am	169 Crawford
	27522	<i>recitation</i>	0	W	12:00-12:50pm	169 Crawford
Core Bioengineering Options						
BIOENG 1095 ⁺	13314	Special Projects ⁺	1-6	TBA	TBA	
BIOENG 1150	13302	Bioengineering Methods and Apps	3	F	8:00-9:15am	320 Benedum
	13303	<i>lab</i>	0	W	3:00-5:50pm	G31 Benedum
BIOENG 1210	13301	Bioengineering Thermodynamics	3	TuTh	10:00-11:15am	320 Benedum
	13473	<i>recitation</i>	0	W	10:00-10:50am	G37 Benedum
	22986	Bioengineering Thermodynamics	0	MW	9:00-10:15am	320 Benedum
	22987	<i>recitation</i>	0	Tu	1:00-1:50pm	318 Benedum
BIOENG 1241	13482	Social, Political, Ethical Issues in Biotech	3	MW	8:30-9:45am	318 Benedum
BIOENG 1310	13464	Linear Systems & Electronics 1	3	TuTh	2:30-3:45pm	157 Benedum
	13596	<i>lab</i>	0	Tu	6:30-9:00pm	B10 Benedum
	13597	<i>lab</i>	0	W	6:30-9:00pm	B10 Benedum
	13465	<i>lab</i>	0	Th	6:30-9:00pm	B10 Benedum
	19241	<i>lab</i>	0	M	6:30-9:00pm	B10 Benedum
BIOENG 1383	17729	Biomedical Optical Microscopy	3	TuTh	9:00-10:15am	318 Benedum
BIOENG 1620	13581	Intro to Tissue Engineering	3	MW	12:00-1:15pm	320 Benedum
BIOENG 1630	13252	Biomechanics 1 - Mech Principles	3	MW	3:30-4:45pm	320 Benedum
	13315	<i>recitation</i>	0	Tu	9:00-9:50am	320 Benedum
	22988	Biomechanics 1 - Mech Principles	3	TuTh	11:30-12:45pm	320 Benedum
	22991	<i>recitation</i>	0	W	12:00-12:50pm	226 Benedum
ENGR 0135	13402	Statics & Mechanics of Materials 1	3	MWF	3:00-3:50pm	318 Benedum

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Required Courses						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
MATH 0280	16800	Intro to Matrices & Linear Algebra	3	MWF	10:00-10:50am	704 Thackeray
	11741	Intro to Matrices & Linear Algebra	3	MWF	11:00-11:50am	G29 Benedum
	19885	Intro to Matrices & Linear Algebra	3	MWF	1:00-1:50pm	1501 WWPH
	17754	Intro to Matrices & Linear Algebra	3	MWF	2:00-2:50pm	G29 Benedum
MATH 0290	12326	Differential Equations	3	MWF	10:00-10:50am	207 Lawrence
	11742	Differential Equations	3	MWF	11:00-11:50am	207 Lawrence
	11743	Differential Equations	3	MWF	10:00-10:50am	G8 CL
	24907	Differential Equations	3	MWF	12:00-12:50pm	1500 WWPH
	19248	Differential Equations	3	TuTh	4:00-5:15pm	107 Lawrence
	11744	Differential Equations	3	MW	6:00-7:15pm	704 Thackeray
	27218	Differential Equations	3	MWF	1:00-1:50pm	704 Thackeray
ENGR 0022	13480	Materials Structure & Properties	3	MWF	1:00-1:50pm	G30 Benedum
	13481	<i>recitation</i>	0	M	4:00-4:50pm	G29 Benedum
ENGR 0135	13402	Statics & Mechanics of Materials 1	3	MWF	3:00-3:50pm	318 Benedum
ENGR 0145	13394	Statics & Mechanics of Materials 2	3	MWF	3:00-3:50pm	157 Benedum
ENGR 1701	13598	Fundamentals of Nuclear Reactors	3	W	6:00-8:30pm	157 Benedum
MEMS 0031	15434	Electrical Circuits	3	MWF	5:00-5:50pm	157 Benedum
MEMS 0031	30527	Electrical Circuits	3	MWF	9:00-9:50am	150 Chevron
MEMS 0051	15437	Introduction to Thermodynamics	3	MWF	9:00-9:50am	157 Benedum
MEMS 0051	30528	Introduction to Thermodynamics	3	MWF	5:00-5:50pm	A224 Langley
MEMS 0071	24069	Introduction to Fluid Dynamics	3	MWF	2:00-2:50pm	123 Victoria
MEMS 1015	16819	Rigid-Body Dynamics	3	MWF	9:00-9:50am	123 Victoria
MEMS 1043	18041	Senior Design Project	3	TuTh	11:00-12:25pm	318 Benedum
MEMS 1085	15439	Departmental Seminar	0	Tu	11:00-11:50am	121 Lawrence
ENGSCI 1801	23253	Engineering Design 1	3	TBA	TBA	
ENGSCI 1802	23254	Engineering Design 2	3	TBA	TBA	

† Department Consent Required

‡ Instructor Consent Required

Electives						
Subj./Catlg#	Class #	Course	Units	Days	Time	Room
ENGR 1090†	30508	Engineering Cooperative Program†	1			
ENGR 1713	28709	Radiation Detection and Measurement	3	W	4:00-5:50pm	113 CL
	28712	lab	0	W	6:00-7:50pm	TBA

Engineering Science Nuclear Undergraduate Course Schedule

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To earn a BS in Engineering Science with a concentration in Nuclear Energy the student takes an additional 15 credits of Program Electives in addition to the required courses. The 15 credits must include an area of emphasis consisting of at least 9 credits of interrelated courses demonstrating depth of knowledge. Note that at least 6 of the 15 program elective credits must be in Engineering, Science or Math. Potential 3-course areas of emphasis are listed below but sequences in foreign languages and culture, economics, business, and other areas can be approved by the ECSI program director.

Potential 3-course areas of emphasis:

Nuclear Engineering - graduate nuclear engineering courses
Civil & Environmental Engineering - Structural, Water Resources, Construction Management & Sustainability, Environmental Engineering
Bioengineering - Biosignals and Imaging
Electrical Engineering - Power
Industrial Engineering - Engineering Management
Mechanical Engineering - Dynamic Systems, Solid Mechanics
Materials Science & Engineering Physics
Mathematics - Numerical methods and Analysis

Alternatively the student may fulfill the elective requirement by earning a certificate (besides the Nuclear Engineering Certificate) offered by the SSOE:

Energy Resource Utilization
Fessenden Honors Engineering
International Engineering Studies
Product Realization
Sustainable Engineering

Please refer to the course schedule for your selected area of emphasis for course options