

Class Nbr	Component		Meeting Days & Times	Instructor	Min Max Units	Comments
	Type	Nbr				
College of Engineering and Computer Science						
AEE - Aerospace Engineering						
AEE 427	Aircraft Performance&Dynamics — Prereq: MAE 341.					
13975	SEC	M001	MW F	02:15PM-03:35PM 12:45PM-01:40PM	Green Dannenhofer	4.0
AEE 446	Propulsion — Prereq: AEE 343.					
14110	SEC	M001	TTh	03:30PM-04:50PM	Akih Kungeh	3.0
14136	REC	M002	Th	05:00PM-06:20PM	Akih Kungeh	
AEE 471	Desgn/Anlys Aerosp Strctr — Prereq: ECS 325.					
13976	SEC	M001	MW	10:35AM-12:35PM	Dalir	4.0
AEE 542	Hypscnc/Hgh Tmp Gas Dymcns — Prereq: MAE 251 and AEE 343.					
20640	SEC	M001	MW	12:45PM-02:05PM	Ali	3.0
BEN - Bioengineering						
BEN 231	Mass & Energy Balances — Crosslisted with CEN 231.					
14144	SEC	M001	TTh	12:30PM-01:50PM	Yung	3.0
BEN 301	Biological Princpls for Engrns — Prereq: CHE 275 and MAT 397 and ECS 104.					
14142	SEC	M001	MWF	11:40AM-12:35PM	Ren	4.0
14210	LAB	M002	F	02:15PM-05:00PM	Ren	
BEN 333	Fluid Transport — Prereq: MAT 397 and (PHY 212 or 216). Crosslisted with CEN 333.					
14143	SEC	M001	MWF	10:35AM-11:30AM	Sangani	3.0 Jr or Sr standing only.
BEN 458	Biomedical Imaging — Double numbered with BEN 658.					
14228	SEC	M001	TTh	05:00PM-06:20PM	Ogden	3.0
BEN 465	Biomechanics — Prereq: ECS 221 and MAT 485 and BEN 364. Double numbered with BEN 665.					
14182	SEC	M001	TTh	02:00PM-03:20PM	Henderson	3.0
BEN 481	Bioinstrumentation — Prereq: ELE 231 and 232.					
14185	SEC	M001	WF	12:45PM-02:05PM	Ma	3.0 BEN Srs Only.
BEN 485	Bioengineering Laboratory — Coreq: BEN 465 and 481.					
	<i>Register for one Lab M002 or M003, Section M001 will auto-enroll.</i>					
14184	SEC	M001	M	12:45PM-01:40PM	Yung	4.0 BEN Srs Only.
14186	LAB	M002	M	02:15PM-05:05PM	Yung	
14189	LAB	M003	W	02:15PM-05:05PM	Yung	
BEN 600	Selected Topics					
14258	SEC	M003	TTh	03:30PM-04:50PM	Soman	3.0 Class Topic: Bio-Manufacturing. BEN Grad Students Only Biomanufacturing introduces the students to plethora of manufacturing technologies which have been applied to process biomaterials in order to engineer heterogeneous tissue models, medical therapeutic products and in-vitro drug-testing platforms. The class consists of lectures on various manufacturing/ processes such as casting, molding, machining, soft/photo-lithography, microfluidics, stereolithography, electrospinning, and laser/light-photocrosslinking. Successful completion of the course will provide the student with the benefits, limitations, and applications of different biomanufacturing strategies.
BEN 601	BMCE Seminar — Crosslisted with CEN 601.					
14095	SEC	M001	F	12:45PM-02:15PM	Nangia Sureshkumar	0.0
BEN 602	Ethical Issues in Engineering — Crosslisted with CEN 602.					
14256	SEC	M001	MW	12:45PM-02:05PM	Radcliffe	1.0 3.0
BEN 613	Readings in Neuroscience — Crosslisted with BIO 624, CSD 753, NEU 613, PSY 778.					
20245	SEC	M001	TBA		Hewlett Jones	0.0 3.0 Meets with NEU 613/Bio 624/ CSD 753/ Psych 778.
BEN 635	Physical Cell Biology — Crosslisted with BIO 635, CEN 635, CHE 635, PHY 635.					
13970	SEC	M001	MW	02:15PM-03:35PM	Forstner	3.0 BEN Grad Students Only.
BEN 658	Biomedical Imaging — Double numbered with BEN 458.					
14229	SEC	M001	TTh	05:00PM-06:20PM	Ogden	3.0
BEN 665	Biomechanics — Prereq: ECS 221, MAT 485, BEN 664. Double numbered with BEN 465.					
14183	SEC	M001	TTh	02:00PM-03:20PM	Henderson	3.0 BEN Grad Students Only.
BEN 687	Advanced Bioengineering Design					
14400	SEC	M001	M	05:15PM-08:05PM	Quinn	3.0 Department Consent Required. BEN MS Students Only.
BEN 997	Thesis for the M.S. Degree					
14060	SEC	M001	TBA		Staff	1.0 6.0
CEN - Chemical Engineering						
CEN 231	Mass & Energy Balances — Crosslisted with BEN 231.					
13977	SEC	M001	TTh	12:30PM-01:50PM	Cadwell	3.0 Sophomore or Junior standing Evening Exams.
CEN 333	Fluid Transport — Prereq: MAT 397 and (PHY 212 or 216). Crosslisted with BEN 333.					
13978	SEC	M001	MWF	10:35AM-11:30AM	Sangani	3.0 Junior or Senior Standing.
CEN 353	Cen Thermodynamics II — Prereq: CEN 252.					
13979	SEC	M001	TTh	02:00PM-03:20PM	Nangia	3.0 Undergraduate students only.
CEN 400	Selected Topics					
14275	SEC	M002	TTh	11:00AM-12:20PM	Chen	3.0 Class Topic: Envir Risk Assess & Toxicology. Meets with CIE 554.
14306	SEC	M003	TTh	02:00PM-03:20PM	Hosein Staff	3.0 Class Topic: Materials for Energy System. Department Consent Required.
14324	SEC	M004	TBA		Bond	3.0 Class Topic: Service Energy & Sustainabil. Instructor Consent Required.
CEN 412	Chemical Engr Lab II — Prereq: CEN 341.					
14056	SEC	M001	M MW	12:45PM-04:15PM 12:45PM-03:45PM	Cadwell TA	2.0
14153	SEC	M002	W	12:45PM-04:15PM	Cadwell	2.0
CEN 461	Env Chem & Analysis — Crosslisted with CIE 471, CIE 671. Double numbered with CEN 661.					
14100	SEC	M001	MW	10:35AM-12:35PM	Johnson	3.0
CEN 472	Applied Env Microbiology — Crosslisted with CIE 472, CIE 672. Double numbered with CEN 672.					
20613	SEC	M001	MW	03:45PM-05:05PM	Staniec	3.0
CEN 542	Heat & Mass Transfer Oper — Prereq: CEN 341.					
13981	SEC	M001	TTh	09:30AM-10:50AM	Tavlarides	3.0 Undergraduates only.
CEN 573	Prn&Des/Air Pollutn Cntrl					
14308	SEC	M001	TTh	05:00PM-06:20PM	Santanam	3.0
CEN 587	Chemical Reaction Egr — Prereq: CEN 341 and CHE 356.					
13982	SEC	M001	MWF	09:30AM-10:25AM	Bond	3.0
CEN 600	Selected Topics					
14257	SEC	M001	TTh	03:30PM-04:50PM	Soman	3.0 Class Topic: Bio-Manufacturing. CEN Grad Students Only.
14259	SEC	M002	W	05:15PM-08:00PM	Santanam	3.0 Class Topic: Advanced Chemical Engr Design. Department Consent Required. CEN MS students only.

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	Type	Nbr					
14260	SEC	M003	TTh	11:00AM-12:20PM	Chen	3.0	Class Topic: Envir Risk Assess & Toxicology.
14305	SEC	M004	TTh	02:00PM-03:20PM	Hosein	3.0	Class Topic: Materials for Energy Systems. Instructor Consent Required. CEN Grad Students Only.
			TTh	02:00PM-03:20PM	Staff		
CEN 601	BMCE Seminar — Crosslisted with BEN 601.						
14277	SEC	M001	F	12:45PM-02:15PM	Nangia Sureshkumar	0.0	
CEN 602	Ethical Issues in Engineering — Crosslisted with BEN 602.						
14278	SEC	M001	MW	12:45PM-02:05PM	Radcliffe	1.0	3.0
CEN 635	Physical Cell Biology — Crosslisted with BEN 635, BIO 635, CHE 635, PHY 635.						
13971	SEC	M001	MW	02:15PM-03:35PM	Forstner	3.0	CEN grad students only.
CEN 643	Fluid Dynamics — Prereq: MAE 341 or CEN 333. Crosslisted with MAE 643.						
	<i>Meets with MAE 643</i>						
14316	SEC	M001		TBA	Lewalle	3.0	
CEN 661	Env Chem & Analysis — Crosslisted with CIE 471, CIE 671. Double numbered with CEN 461.						
14101	SEC	M001	MW	05:15PM-07:15PM	Todorova	3.0	
CEN 671	Chemical Engineering Meth I						
14082	SEC	M001	MW	03:45PM-05:05PM	Sureshkumar	3.0	
CEN 672	Applied Env Microbiology — Crosslisted with CIE 472, CIE 672. Double numbered with CEN 472.						
20614	SEC	M001	MW	03:45PM-05:05PM	Staniec	3.0	
CEN 741	Transport Phenomena I — Prereq: CEN 542, 671.						
14401	SEC	M001	TTh	05:00PM-06:20PM	Sangani	3.0	
CEN 997	Masters Thesis						
13983	SEC	M001		TBA	Staff	1.0	6.0
CIE - Civil Engineering							
CIE 271	Env Chem & Analysis — Prereq: CHE 116 or CHE 150; Coreq: MAT 296.						
20259	SEC	M001	MWF	09:30AM-10:25AM	Staniec	3.0	
CIE 273	Intro to Geomatics & BIM — Prereq: MAT 295; Coreq: MAT 296.						
	<i>Register for one Lab M003 - M005; Section M001 will auto-enroll.</i>						
14297	SEC	M001	MWF	09:30AM-10:25AM	Joyce Salman	3.0	
14298	LAB	M003	W	12:45PM-03:30PM	Joyce Salman		
14299	LAB	M004	F	12:45PM-03:30PM	Joyce Salman		
14300	LAB	M005	M	12:45PM-03:30PM	Joyce Salman		
CIE 326	Engineering Materials						
	<i>Register for one recitation M002-M003; Section M001 will auto-enroll.</i>						
20260	SEC	M001	TTh	08:00AM-09:20AM	Salman	3.0	
20261	REC	M002	T	12:30PM-01:50PM	Salman		
20262	REC	M003	Th	12:30PM-01:50PM	Salman		
CIE 327	Prin of Fluid Mechanics — Prereq: MAT 397 and ECS 221.						
	<i>Register for one Recitation M002 - M005; Section M001 will auto-enroll.</i>						
14172	SEC	M001	TTh	11:00AM-12:20PM	Lotter	4.0	
14173	REC	M002	T	03:30PM-04:50PM	Lotter		
14174	REC	M003	Th	03:30PM-04:50PM	Lotter		
14175	REC	M004	T	12:30PM-01:50PM	Lotter		
20338	REC	M005	Th	12:30PM-01:50PM	Lotter		
CIE 331	Analys/Structr & Mat'ls — Prereq: ECS 325.						
	<i>Register for Recitation M002; Section M001 will auto-enroll.</i>						
13984	SEC	M001	MWF	10:35AM-11:30AM	Lui	3.0	
14061	REC	M002	W	11:40AM-12:35PM	Lui		
			W	11:40AM-12:35PM			
CIE 337	Intro to Geotechnical Engrng — Prereq: ECS 325.						
	<i>Register for one CIE Lab; M002, M003, M006, Section M001 will auto-enroll.</i>						
13985	SEC	M001	TTh	09:30AM-10:50AM	Bhatia	4.0	civil/environmental engr students only.
14025	LAB	M002	M	12:45PM-03:15PM	Bhatia		civil/environmental engr students only.
14026	LAB	M003	W	12:45PM-03:15PM	Bhatia		civil/environmental engr students only.
14027	LAB	M004	W	03:45PM-06:15PM	Bhatia		ESF students only.
14120	LAB	M005	F	12:45PM-03:15PM	Bhatia		ESF students only.
14140	LAB	M006	M	03:45PM-06:15PM	Bhatia		civil/environmental engr students only.
	<i>Register for one ESF Lab; M004, M005; Section M007 will auto-enroll.</i>						
14147	SEC	M007	TTh	08:00AM-09:20AM	Bhatia	4.0	ESF students only.
CIE 341	Intro. to Environmental Engrng — Prereq: CIE 274.						
	<i>Register for Recitation M002 or M003, Section M001 will auto-enroll.</i>						
13986	SEC	M001	TTh	02:00PM-03:20PM	Todorova	3.0	
14091	REC	M002	F	12:45PM-01:40PM	Todorova		
14372	REC	M003	F	11:40AM-12:35PM	Todorova		
CIE 400	Selected Topics						
14359	SEC	M001	MWF	09:30AM-10:25AM	Todorova	3.0	Class Topic: Urban Stormwater Management. Meets with CIE600, M001.
20348	SEC	M003		TBA	Lui	1.0	Class Topic: Field Learning Experience. Meets with CIE600, M003.
14364	SEC	M005	TTh	09:30AM-10:50AM	Steinberg	3.0	Class Topic: Urban Infrastructure. Meets with CIE600, M005.
20354	SEC	M007	TTh	11:00AM-12:20PM	Chen	3.0	Class Topic: Enviro Risk Assmt & Toxicology. Meets with CIE600, M007 and CEN 400/600.
20357	SEC	M011	TTh	03:30PM-04:50PM	Chandler	3.0	Class Topic: Stream Ecohydrology. Instructor Consent Required. Meets with CIE600, M011.
CIE 401	Construction Eng & Project Mgt — Double numbered with CIE 601.						
14301	SEC	M001	TTh	03:30PM-04:50PM	Salem	3.0	
CIE 442	Treatment Proc. in Env. Eng. — Prereq: (CIE 327 or MAE 341) and CIE 341. Double numbered with CIE 642.						
	<i>Register for one Lab M002 - M003; Section M001 will auto-enroll.</i>						
14156	SEC	M001	TTh	11:00AM-12:20PM	Zeng	4.0	
14157	LAB	M002	T	12:30PM-02:30PM	Zeng		
14158	LAB	M003	Th	12:30PM-03:30PM	Zeng		
CIE 443	Transportation Engineering — Double numbered with CIE 643.						
13987	SEC	M001	MW	02:15PM-03:35PM	Salman	3.0	
CIE 457	Biogeochemistry — Prereq: CHE 106 and 107. Double numbered with CIE 657.						
14111	SEC	M001	MW	02:15PM-03:35PM	Driscoll Jr	3.0	
CIE 463	Intro to Sustainable Engr — Double numbered with CIE 663.						
14303	SEC	M001	MW	12:45PM-02:05PM	Davidson	3.0	Instructor Consent Required.
CIE 471	Env Chem & Analysis — Crosslisted with CEN 461, CEN 661. Double numbered with CIE 671.						
14098	SEC	M001	MW	10:35AM-12:35PM	Johnson	3.0	
CIE 472	Applied Env Microbiology — Crosslisted with CEN 472, CEN 672. Double numbered with CIE 672.						
20353	SEC	M001	MW	03:45PM-05:05PM	Staniec	3.0	

Subject & Course Title
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College of Engineering and Computer Science

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	Class Nbr	Type	Nbr				
CIE 478	Rehab of Civil Infrastructure — Prereq: CIE 332 and ECS 325. Double numbered with CIE 678.						
	14089	SEC	M001	MW	03:45PM-05:05PM	Aboutaha	3.0
CIE 500	Selected Topics						
	20363	SEC	M001	TTh	05:00PM-06:20PM	Santanam	3.0
	Class Topic: Air Pollution Control. Meets with CEN 573.						
CIE 548	Engr Econ & Tech Valuation — Prereq: MAT 296. Crosslisted with MAE 548.						
	14238	SEC	M001	Th	03:30PM-06:15PM	Khalifa	3.0
CIE 600	Selected Topics						
	14360	SEC	M001	MWF	09:30AM-10:25AM	Todorova	3.0
	20366	SEC	M003		TBA	Lui	1.0
	14365	SEC	M005	TTh	09:30AM-10:50AM	Steinberg	3.0
	20368	SEC	M007	TTh	11:00AM-12:20PM	Chen	3.0
	20370	SEC	M009	TTh	02:00PM-03:20PM	Lotter	3.0
	20369	SEC	M011	TTh	03:30PM-04:50PM	Chandler	3.0
	Class Topic: Urban Stormwater Management. Meets with CIE400, M001. Class Topic: Field Learning Experience. Meets with CIE400, M003. Class Topic: Urban Infrastructure. Meets with CIE400, M005. Class Topic: Enviro Risk Assmt & Toxicology. Meets with CIE400, M007 and CEN 400/600. Class Topic: Groundwater Modeling. Meets with EAR665. Class Topic: Stream Ecohydrology. Meets with CIE400, M011.						
CIE 601	Construction Eng & Project Mgt — Double numbered with CIE 401.						
	14302	SEC	M001	TTh	03:30PM-04:50PM	Salem	3.0
CIE 631	Classic&Matrix Struct Analysis						
	20373	SEC	M001	MW	12:45PM-02:05PM	Lui	3.0
CIE 633	Finite Element Analysis						
	14216	SEC	M001	TTh	12:30PM-01:50PM	Ataei	3.0
CIE 637	Adv Soil Mech Fndtns I						
	14119	SEC	M001	TTh	05:00PM-06:20PM	Negussey	3.0
CIE 642	Treatment Proc. in Env. Eng. — Double numbered with CIE 442.						
	Register for Lab M003; Section M001 will auto-enroll.						
	14159	SEC	M001	TTh	11:00AM-12:20PM	Zeng	4.0
	14160	LAB	M003	T	03:30PM-05:30PM	Zeng	
CIE 643	Transportation Engineering — Double numbered with CIE 443.						
	14253	SEC	M001	MW	02:15PM-03:35PM	Salman	3.0
CIE 657	Biogeochemistry — Double numbered with CIE 457.						
	14118	SEC	M001	MW	02:15PM-03:35PM	Driscoll Jr	3.0
CIE 659	Advanced Hydrology						
	20367	SEC	M001	TTh	12:30PM-01:50PM	Chandler	3.0
CIE 660	Seminar Civil Engineering						
	14358	SEC	M001		TBA	Negussey	0.0
CIE 663	Intro to Sustainable Engr — Double numbered with CIE 463.						
	14304	SEC	M001	MW	12:45PM-02:05PM	Davidson	3.0
CIE 670	Experience Credit						
	20376	SEC	M001		TBA	Staff	1.0
	6.0 Department Consent Required. Proposal required.						
CIE 671	Env Chem & Analysis — Crosslisted with CEN 461, CEN 661. Double numbered with CIE 471.						
	14099	SEC	M001	MW	05:15PM-07:15PM	Todorova	3.0
CIE 672	Applied Env Microbiology — Crosslisted with CEN 472, CEN 672. Double numbered with CIE 472.						
	20374	SEC	M001	MW	03:45PM-05:05PM	Staniec	3.0
CIE 677	Design of Structural Systems						
	14176	SEC	M001	MW	05:15PM-06:35PM	Aboutaha	3.0
CIE 678	Rehab of Civil Infrastructure — Prereq: ECS 325, CIE 332. Double numbered with CIE 478.						
	14090	SEC	M001	MW	03:45PM-05:05PM	Aboutaha	3.0
CIE 690	Independent Study						
	20375	SEC	M001		TBA	Staff	1.0
	6.0 Department Consent Required. Proposal required.						
CIE 700	Selected Topics						
	14237	SEC	M001	F	12:45PM-02:05PM	Staff	1.0
	Class Topic: Water Seminar. Meets with EAR 600, M006.						
CIE 995	Master's Exit Paper						
	14255	SEC	M001		TBA	Buchanan	0.0
CIE 997	Masters Thesis						
	13988	SEC	M001		TBA	Staff	0.0
	6.0 Department Consent Required.						
CIS - Computer & Info Science							
CIS 270	Experience Credit						
	20199	SEC	M001		TBA	Staff	3.0
	6.0 Department Consent Required. Proposal required.						
CIS 290	Independent Study						
	20205	SEC	M001		TBA	Staff	1.0
	6.0 Department Consent Required. Proposal required.						
CIS 321	Intro to Probability/Status — Prereq: MAT 295.						
	14325	SEC	M001	TTh	08:00AM-09:20AM	Staff	4.0
CIS 351	Data Structures — Prereq: CIS 252.						
	Register for Lab M002, M003, M010, or M011; Section M001 will auto-enroll.						
	13990	SEC	M001	MW	12:45PM-02:05PM	Royer	4.0
	14028	LAB	M002	T	12:30PM-01:25PM	Royer	
	14029	LAB	M003	T	11:00AM-11:55AM	Royer	
	Register for Lab M005, M006, M012, or M013; Section M004 will auto-enroll.						
	14264	SEC	M004	MW	03:45PM-05:05PM	Royer	4.0
	14265	LAB	M005	T	11:00AM-11:55AM	Royer	
	14276	LAB	M006	T	02:00PM-02:55PM	Royer	
	14410	LAB	M010	T	03:30PM-04:25PM	Royer	
	14411	LAB	M011	T	05:00PM-05:55PM	Royer	
	14412	LAB	M012	T	03:30PM-04:25PM	Royer	
	14413	LAB	M013	T	05:00PM-05:55PM	Royer	
CIS 370	Experience Credit						
	20200	SEC	M001		TBA	Staff	1.0
	6.0 Department Consent Required. Proposal required.						
CIS 375	Intro to Discrete Mathematics						
	Register for Recitation M002 or M003 and Section M001 will auto-enroll.						
	14065	SEC	M001	TTh	02:00PM-03:20PM	Older	3.0
	14081	REC	M002	Th	11:00AM-11:55AM	Older	
	14139	REC	M003	W	10:35AM-11:30AM	Older	
	Register for Recitation M005 or M006 and Section M004 will auto-enroll.						
	14261	SEC	M004	TTh	11:00AM-12:20PM	Older	3.0
	14262	REC	M005	W	02:15PM-03:10PM	Older	
	14263	REC	M006	W	03:45PM-04:40PM	Older	
	14312	SEC	M007	TTh	12:30PM-01:50PM	Staff	3.0
	14313	REC	M008	W	09:30AM-10:25AM	Staff	
	14314	REC	M009	W	11:40AM-12:35PM	Staff	
	Register for Recitation M008 or M009 and Section M007 will auto-enroll.						
CIS 400	Selected Topics						
	14208	SEC	M002	W	09:30AM-12:15PM	Blocca	3.0
	14285	SEC	M008	MW	02:15PM-03:35PM	Chin	3.0
	Class Topic: Human-Computer Interaction. Meets with CIS 600 M002 and COM/TRF 400/600. Class Topic: Certified Security by Design. Instructor Consent Required.						
CIS 428	Introduction to Cryptography — Prereq: CIS 477 or MAT 534 or 541.						
	14272	SEC	M001	TTh	09:30AM-10:50AM	Blair	3.0

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College of Engineering and Computer Science

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CIS 444	Mobile Application Programming — Prereq: CIS 351 or CSE 382. Double numbered with CIS 651.						
	14282	SEC	M001	TTh	02:00PM-03:20PM	Brahma	3.0
CIS 453	Software Spec. and Design — Prereq: CIS 351 or CSE 382.						
	14024	SEC	M001	MW	03:45PM-05:05PM	Yu	3.0
CIS 467	Intro/Artfcl. Intelligence — Prereq: CIS 275 and 321 and (CIS 351 or CSE 382). Double numbered with CIS 667.						
	<i>Enroll in Lab M002; Section M001 will auto-enroll.</i>						
	14066	SEC	M001	TTh	11:00AM-12:20PM	Lee	3.0
	14067	LAB	M002	F	10:35AM-11:30AM	Lee	
CIS 468	Natural Language Processing — Crosslisted with IST 664. Double numbered with CIS 668.						
	14235	SEC	M001	MW	12:45PM-02:05PM	McCracken	3.0 Meets with CIS 668; IST 664 and IST 400; Laptop required..
CIS 470	Experience Credit						
	20201	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 477	Intro/Analysis of Algorithms — Prereq: CIS 275 and 351.						
	14154	SEC	M001	TTh	09:30AM-10:50AM	Lee	3.0
	14155	REC	M002	W	10:35AM-11:30AM	Lee	Enroll in Recitation M002. Section M001 will auto-enroll.
	14421	REC	M003	W	11:40AM-12:35PM	Lee	
CIS 486	Design Operating Systems — Prereq: (CIS 341 and 342 and 351) or (CSE 381 and 382).						
	14163	SEC	M001	TTh	12:30PM-01:50PM	Oh	3.0
	14397	LAB	M002	F	11:40AM-01:40PM	Oh	
	14398	LAB	M003	F	02:15PM-04:05PM	Oh	
CIS 487	Access Control, Security&Trust — Prereq: CIS 275.						
	14284	SEC	M001	MW	12:45PM-02:05PM	Chin	3.0
CIS 490	Independent Study						
	20206	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 543	Control of Robots — Crosslisted with ELE 516.						
	14094	SEC	M001	MW	02:15PM-03:35PM	Tetley	3.0
CIS 554	Obj Orientd Progrmng C++ — Prereq: ECS 102.						
	14149	SEC	M001	W	05:15PM-08:00PM	Waclawski	3.0
CIS 570	Experience Credit						
	20202	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 590	Independent Study						
	20207	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 600	Selected Topics						
	14209	SEC	M002	W	09:30AM-12:15PM	Biocca	3.0 Class Topic: Human-Computer Interaction. Meets with CIS 400 M002 and COM/TRF 400/600.
CIS 607	Mathmat. Basis for Computing						
	14078	SEC	M001	TTh	11:00AM-12:20PM	Blair	3.0
CIS 628	Introduction to Cryptography — Prereq: (CIS 477 or 675) or (MAT 534 or 541).						
	14273	SEC	M001	TTh	09:30AM-10:50AM	Blair	3.0
CIS 651	Mobile Application Programming — Double numbered with CIS 444.						
	14283	SEC	M001	TTh	05:00PM-06:20PM	Staff	3.0
CIS 655	Computer Architecture — Prereq: CIS 341.						
	14274	SEC	M001	TTh	08:00AM-09:20AM	Ercanli	3.0
CIS 657	Prcnpls Operating Systems — Prereq: CIS/CSE 486 or equivalent.						
	<i>Register for Lab M002 or M003; Section M001 will auto-enroll.</i>						
	14068	SEC	M001	TTh	09:30AM-10:50AM	Markowski	3.0
	14187	LAB	M002	Th	02:00PM-04:50PM	Markowski	
	14188	LAB	M003	Th	05:00PM-08:00PM	Markowski	
	14414	LAB	M004	T	02:00PM-04:50PM	Markowski	
CIS 667	Intro/Artfcl. Intelligence — Double numbered with CIS 467.						
	<i>Enroll in Lab M002; Section M001 will auto-enroll.</i>						
	14069	SEC	M001	TTh	11:00AM-12:20PM	Lee	3.0
	14070	LAB	M002	F	10:35AM-11:30AM	Lee	
CIS 668	Natural Language Processing — Crosslisted with IST 664. Double numbered with CIS 468.						
	14236	SEC	M001	MW	12:45PM-02:05PM	McCracken	3.0 Meets with CIS 468; IST 664 and IST 400; Laptop required..
CIS 670	Experience Credit						
	20203	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 675	Desgn&Anlys of Algorithms — Prereq: CIS 607/CSE 607.						
	14071	SEC	M001	MW	05:15PM-06:35PM	Soundarajan	3.0
CIS 690	Independent Study						
	20208	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 700	Selected Topics in CIS						
	14393	SEC	M001	TTh	02:00PM-03:20PM	Mohan	3.0 Class Topic: Social Network Dynamics.
	14399	SEC	M002	MW	02:15PM-03:35PM	Phoha	3.0 Class Topic: Biometrics.
CIS 787	Analytical Data Mining — Prereq: CIS 675, ELE 606, CSE 607.						
	14286	SEC	M001	TTh	03:30PM-04:50PM	Zafarani	3.0
CIS 790	Independent Study						
	20209	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 890	Independent Study						
	20210	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 970	Experience Credit						
	20204	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CIS 990	Independent Study						
	20211	SEC	M001	TBA		Staff	1.0 6.0 Department Consent Required. Proposal required.
CPS - Computational Science							
CPS 100	Selected Topics						
	14379	SEC	M001	MW	03:45PM-05:05PM	Markowski	3.0 Class Topic: Python Programming/Beginners.
CPS 181	Introduction to Computing						
	14117	SEC	M001	MW	02:15PM-03:35PM	Wang	3.0 Includes lab. For non-CE, CIS majors.
CPS 196	Intro to Computer Programming						
	13989	SEC	M001	MW	03:45PM-05:05PM	Wang	3.0 Includes lab. For non-CE, CIS majors.
CPS 400	Selected Topics						
	14377	SEC	M001	MW	06:45PM-08:05PM	Jung	3.0 Class Topic: Computer Org. & Kernel Program. Department Consent Required.
	14378	SEC	M002	Th	05:00PM-07:50PM	Rouseche	3.0 Class Topic: Data Structures & Algorithms. Department Consent Required.
CPS 500	Selected Topics						
	14429	SEC	M001	MW	03:45PM-05:05PM	Markowski	3.0 Class Topic: Python Programming.
CPS 600	Selected Topics						
	14394	SEC	M001	TTh	02:00PM-03:20PM	Markowski	3.0 Class Topic: Python Programming for Finance.
CPS 681	Explorations in Computing						
	14286	SEC	M001	Th	03:30PM-06:15PM	Weissman	3.0

Class Nbr	Type	Component		Meeting Days & Times	Instructor	Min Units	Max Units	Comments
		Nbr						
CSE - Computer Engineering								
CSE 270	Experience Credit							
20212	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 283	Object-Oriented Design — Prereq: ECS 102.							
<i>Register for Recitation M002; Section M001 will auto-enroll.</i>								
14079	SEC	M001	MW	12:45PM-02:05PM	Chen	3.0		
14215	REC	M002	F	11:40AM-12:35PM	Chen			
CSE 290	Independent Study							
20217	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 370	Independent Study							
20213	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 381	Computer Architecture — Prereq: CSE 261.							
<i>Register for Recitation M002; Section M001 will auto-enroll.</i>								
14164	SEC	M001	TTh	09:30AM-10:50AM	Qiu	3.0		
14217	REC	M002	W	11:40AM-12:35PM	Qiu			
CSE 382	Algorithms & Data Structr — Prereq: CSE 283.							
14381	SEC	M001	TTh	02:00PM-03:20PM	Chen	3.0		
14382	REC	M002	F	12:45PM-01:40PM	Chen			
CSE 389	Web System Arch/Prog — Prereq: CIS 351 OR CSE 283.							
14307	SEC	M001	MW	02:15PM-03:35PM	Yu	3.0		
CSE 397	FPGA & Microcontroller Des Lab — Prereq: CSE 261 and ELE 231.							
13991	SEC	M001	MW	03:45PM-06:30PM	Marcy	3.0		CSE Engr only.
CSE 464	Intro to Visi Design — Prereq: CSE 261. Crosslisted with ELE 464.							
<i>Register for Lab M003, choose Recitation M002 and Lecture M001.</i>								
13992	SEC	M001	TTh	03:30PM-04:50PM	Qiu	3.0		
14055	REC	M002	F	11:40AM-12:35PM	Qiu			
CSE 470	Experience Credit							
20214	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 484	Intro Cmptr&Network Security — Prereq: CIS 486 or CSE 486 or CSE 384.							
14145	SEC	M001	TTh	12:30PM-01:50PM	Du	3.0		Enroll in M002 or M003 and M001 will Auto-Enroll.
14310	LAB	M002	M	09:30AM-10:25AM	Du			
14311	LAB	M003	M	11:40AM-12:35PM	Du			
CSE 490	Independent Study							
20218	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 491	Senior Design Project I — Prereq: CSE 398.							
14180	SEC	M001	TTh	11:00AM-12:20PM	Marcy	1.0		
CSE 561	Digital Machine Design — Prereq: CSE 261.							
14226	SEC	M002	TTh	12:30PM-01:50PM	Ercanli	3.0		Grad students only.
CSE 581	Intro D/Base Mngmt Syst. — Prereq: CSE 382 or CIS 351.							
14219	SEC	M001	F	09:30AM-12:15PM	Palider	3.0		
14426	SEC	M002	Th	05:00PM-07:50PM	Palider	3.0		
CSE 590	Independent Studies							
20219	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 643	Computer Security							
14146	SEC	M001	MW	02:15PM-03:35PM	Du	3.0		O2 = Online Asynchronous Residency. Meets with CIS 483 and CSE 484.
14403	SEC	M002	TTh	12:30PM-01:50PM	Du	3.0		
CSE 661	Advncd Cmptr Architect							
14072	SEC	M001	TTh	08:00AM-09:20AM	Ercanli	3.0		
CSE 664	VLSI Design Methods — Crosslisted with ELE 664.							
14073	SEC	M001	MW	02:15PM-03:35PM	Wang	3.0		
CSE 670	Experience Credit							
20215	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 674	Advanced Data Struct and Alg							
14280	SEC	M001	MW	06:45PM-08:05PM	Lee	3.0		
CSE 681	Software Modeling & Analysis							
14166	SEC	M001	MW	08:00AM-09:20AM	Fawcett	3.0		
14169	SEC	M002	MW	03:45PM-05:05PM	Fawcett	3.0		
CSE 682	Software Engineering							
14074	SEC	M001	M	05:15PM-08:00PM	Staff	3.0		Meets with CIS 600/M004.
CSE 690	Independent Study							
20220	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 776	Design Patterns — Prereq: CSE 681 and 687.							
14167	SEC	M001	W	09:30AM-12:15PM	Fawcett	3.0		
14190	SEC	M002	M	09:30AM-12:15PM	Fawcett	3.0		
CSE 790	Independent Study							
20221	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 890	Independent Study							
20222	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 970	Experience Credit							
20216	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 990	Independent Study							
20223	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required. Proposal required.
CSE 997	Masters Thesis							
14023	SEC	M001		TBA	Staff	1.0	6.0	Department Consent Required.
ECS - Engineering & Computer Science								
ECS 100	Selected Topics							
14317	SEC	M001	M	02:15PM-03:35PM	Colosi Hasenwinkel Mack	1.0		Class Topic: 1st Yr Engineering Experience. Instructor Consent Required.
14318	SEC	M002	M	03:45PM-05:05PM	Cadwell Colosi Hasenwinkel Mack Povinelli	1.0		Class Topic: 1st Yr Engineering Experience. Instructor Consent Required.
14319	SEC	M003	T	11:00AM-12:20PM	Colosi Hasenwinkel Mack	1.0		Class Topic: 1st Yr Engineering Experience. Instructor Consent Required.
14320	SEC	M004	W	02:15PM-03:35PM	Colosi Hasenwinkel Mack	1.0		Class Topic: 1st Yr Engineering Experience. Instructor Consent Required.

Subject & Course Title
Cat Nbr

College of Engineering and Computer Science

Class Nbr	Component		Meeting Days & Times	Instructor	Min Max Units	Comments
	Type	Nbr				
14321	SEC	M005	W	03:45PM-05:05PM	Colosi Hasenwinkel Mack	1.0 Class Topic: 1st Yr Engineering Experience. Instructor Consent Required.
14322	SEC	M006	Th	11:00AM-12:20PM	Colosi Hasenwinkel Mack	1.0 Class Topic: 1st Yr Engineering Experience. Instructor Consent Required.
ECS 101 Introduction to Engr/Cmpt Sci						
13993	SEC	M002	TTh	09:30AM-10:50AM	Dannenhoffer	3.0 Aerospace Engr. Students Only.
13994	SEC	M003	TTh	09:30AM-10:50AM	Carranti	3.0 Mechanical Engr. Students Only Register for M003,lab M017, M024, M025 will auto enroll.
13995	SEC	M005	TTh	09:30AM-10:50AM	Martin	3.0 Chemical Engr. Students Only.
13996	SEC	M006	TTh	09:30AM-10:50AM	Dannenhoffer	3.0 Civil & Environmental Engr Students Only.
13997	SEC	M010	TTh	09:30AM-10:50AM	Graham	3.0 Electrical & Computer Engineering; Electrical Engineering Students Only.
13998	SEC	M011	TTh	09:30AM-10:50AM	Staff	3.0 Computer Science Students Only.
13999	SEC	M012	TTh	09:30AM-10:50AM	Ercanli	3.0 Electrical & Computer Engineering; Computer Engineering Students Only.
14363	SEC	M013	TTh	03:30PM-04:50PM	Oh	3.0
14021	SEC	M014	TTh	12:30PM-01:50PM	Plumley	3.0 Undeclared Engineering students only.
14062	SEC	M016	TTh	11:00AM-12:20PM	Dannenhoffer	3.0 Aerospace Students Only.
14141	LAB	M017	W	02:15PM-03:35PM	Carranti	3.0 M017 is a non-enrollment lab for Mechanical students.
14080	SEC	M018	TTh	03:30PM-04:50PM	Henderson	3.0 Bioengineering Students Only.
14107	SEC	M019	TTh	11:00AM-12:20PM	Dannenhoffer	3.0 Civil & Environmental Engr Students Only.
14170	SEC	M023	TTh	02:00PM-03:20PM	Plumley	3.0 Civil & Environmental Engr Students Only.
14248	LAB	M024	W	12:45PM-02:05PM	Carranti	3.0 M024 is a non-enrollment lab for Mechanical students.
14249	LAB	M025	W	12:45PM-05:05PM	Carranti	3.0 M024 is a non-enrollment lab for Mechanical students.
ECS 102 Introduction to Computing						
14000	SEC	M001	MW	03:45PM-05:35PM	Baruch	3.0 CE and EE undergrads - Lab.
14247	SEC	M002	TTh	03:30PM-05:20PM	Staff	3.0 CE and EE undergrads - Lab.
14281	SEC	M003	TTh	12:30PM-02:20PM	Staff	3.0 ECS undergrads - Lab.
14315	SEC	M004	MW	12:45PM-02:35PM	Baruch	3.0 EECS undergrads - Lab.
ECS 114 AEW for Pre-Calculus — Coreq: MAT 194.						
14191	SEC	M001	TTh	05:00PM-05:50PM	Pynn	1.0
14338	SEC	M002	TTh	12:30PM-01:25PM	Pynn	1.0
14423	SEC	M003	TTh	07:00PM-07:55PM	Pynn	1.0
14192	SEC	M005	MW	11:40AM-12:35PM	Pynn	1.0
14193	SEC	M009	MW	12:45PM-01:40PM	Pynn	1.0
14194	SEC	M010	MW	05:40PM-06:35PM	Pynn	1.0
ECS 115 AEW for Calculus I — Coreq: MAT 295.						
14339	SEC	M001	MW	02:15PM-03:10PM	Pynn	1.0
14195	SEC	M002	MW	02:15PM-03:10PM	Pynn	1.0
14196	SEC	M003	TTh	11:00AM-11:55AM	Pynn	1.0
14197	SEC	M005	TTh	11:00AM-11:55AM	Pynn	1.0
14287	SEC	M006	WF	12:45PM-01:40PM	Pynn	1.0
14288	SEC	M007	MW	12:45PM-01:40PM	Pynn	1.0
14289	SEC	M008	MW	02:15PM-03:10PM	Pynn	1.0
14198	SEC	M009	TTh	02:00PM-02:55PM	Pynn	1.0
14291	SEC	M010	TTh	12:30PM-01:25PM	Pynn	1.0
14424	SEC	M011	TTh	02:00PM-02:55PM	Pynn	1.0
14342	SEC	M016	TTh	12:30PM-01:25PM	Pynn	1.0
14418	SEC	M017	Th	01:30PM-03:20PM	Pynn	1.0
14221	SEC	M021	M	06:00PM-07:50PM	Pynn	1.0
14343	SEC	M022	Th	05:30PM-07:20PM	Pynn	1.0
14227	SEC	M023	F	02:15PM-04:05PM	Pynn	1.0
14251	SEC	M026	Th	11:00AM-12:50PM	Pynn	1.0
14292	SEC	M028	F	02:15PM-04:05PM	Pynn	1.0
14340	SEC	M030	WF	02:15PM-03:10PM	Pynn	1.0
ECS 116 AEW for Calculus II — Coreq: MAT 296.						
14199	SEC	M001	Th	03:30PM-05:20PM	Pynn	1.0
14200	SEC	M002	W	06:45PM-08:35PM	Pynn	1.0
14417	SEC	M003	M	11:40AM-01:30PM	Pynn	1.0
14425	SEC	M005	T	11:00AM-12:50PM	Pynn	1.0
14201	SEC	M006	W	05:45PM-07:35PM	Pynn	1.0
14427	SEC	M007	M	06:00PM-07:50PM	Pynn	1.0
14213	SEC	M008	M	04:45PM-06:35PM	Pynn	1.0
14243	SEC	M009	W	03:45PM-05:35PM	Pynn	1.0
14245	SEC	M011	T	05:30PM-07:20PM	Pynn	1.0
14341	SEC	M012	F	02:15PM-04:05PM	Pynn	1.0
ECS 117 AEW for Calculus III — Coreq: MAT 397.						
14202	SEC	M002	M	06:45PM-08:35PM	Pynn	1.0 Rec Mat 397 M002 and M006 students.
14203	SEC	M003	Th	05:00PM-06:50PM	Pynn	1.0 Rec Mat 397 M003 or M005 students.
14204	SEC	M004	T	06:30PM-08:20PM	Pynn	1.0 Rec Mat 397 M004 students.
14205	SEC	M005	M	03:45PM-05:35PM	Pynn	1.0 Rec Mat 397 M005 or M003 students.
14206	SEC	M006	W	03:45PM-05:35PM	Pynn	1.0 Rec Mat 397 M006 or M002 students.
14214	SEC	M008	T	11:00AM-12:50PM	Pynn	1.0 Rec Mat 397 M008 students.
14225	SEC	M009	M	02:15PM-04:05PM	Pynn	1.0 Rec Mat 397 M009 students.
14244	SEC	M010	F	02:15PM-04:05PM	Pynn	1.0 Rec Mat 397 M010 students.
ECS 122 AEW for Intro to Computing — Coreq: ECS 102.						
14268	SEC	M001	T	05:30PM-07:20PM	Pynn	1.0
14269	SEC	M002	M	06:45PM-08:35PM	Pynn	1.0
ECS 200 Selected Topics						
14419	SEC	M001	W	04:00PM-05:50PM	Pynn	1.0 Class Topic: AEW for Elec Engr Fundament I.
14420	SEC	M002	T	06:30PM-08:20PM	Pynn	1.0 Class Topic: AEW for Elec Engr Fundament I.
14428	SEC	M003	M	12:45PM-02:35PM	Pynn	1.0 Class Topic: AEW for Elec Engr Fundament I.
ECS 201 AEW for Statics — Coreq: ECS 221.						
14290	SEC	M001	W	06:40PM-08:30PM	Pynn	1.0 Students in ECS 221 LEC M001 or M016 ONLY.
14222	SEC	M002	Th	06:30PM-08:20PM	Pynn	1.0 Students in ECS 221 LEC M001 or M016 ONLY.
14212	SEC	M003	M	03:45PM-05:35PM	Pynn	1.0 Students in ECS 221 LEC M001 or M016 ONLY.
14211	SEC	M005	T	06:10PM-08:00PM	Pynn	1.0 Students in ECS 221 LEC M001 or M016 ONLY.
14152	SEC	M008	W	03:45PM-05:35PM	Pynn	1.0 Students in ECS 221 LEC M001 or M016 ONLY.
14137	SEC	M009	M	01:50PM-03:40PM	Pynn	1.0 Students in ECS 221 LEC M001 or M016 ONLY.
14138	SEC	M011	M	06:00PM-07:50PM	Pynn	1.0 Students in ECS 221 LEC M008 ONLY.
14246	SEC	M012	Th	06:30PM-08:20PM	Pynn	1.0 Students in ECS 221 LEC M008 ONLY.
14223	SEC	M020	M	06:45PM-08:35PM	Pynn	1.0 Students in ECS 221 LEC M013 ONLY.
14224	SEC	M021	Th	06:30PM-08:20PM	Pynn	1.0 Students in ECS 221 LEC M013 ONLY.
ECS 204 Math Prog for Engineers						
14230	SEC	M001	W	10:35AM-11:30AM	Staff	1.0
ECS 206 AEW for Mass & Energy — Coreq: CEN 231.						
14270	SEC	M001	M	04:00PM-05:50PM	Pynn	1.0
14271	SEC	M002	W	07:00PM-08:50PM	Pynn	1.0

Class Nbr	Component		Meeting Days & Times	Instructor	Min Max Units	Comments
	Type	Nbr				
ECS 221 Statics — Prereq: PHY 211 or 215; Coreq: MAT 296.						
<i>Register for one recitation M002-M005, M011-M012; Main Section M001 will auto-enroll.</i>						
14001	SEC	M001	MWF	11:40AM-12:35PM	Davidson	3.0 MAE students ONLY for M001-M005; M011-M012 NON-MAE students ONLY for M006-M010; M013-M015.
14030	REC	M002	F	09:30AM-10:25AM	Davidson	MAE students ONLY for M001-M005; M011-M012.
14031	REC	M003	F	10:35AM-11:30AM	Davidson	MAE students ONLY for M001-M005; M011-M012.
14032	REC	M004	F	12:45PM-01:40PM	Davidson	MAE students ONLY for M001-M005; M011-M012.
14034	REC	M005	F	08:25AM-09:20AM	Davidson	MAE students ONLY for M001-M005; M011-M012.
14033	REC	M006	M	11:40AM-12:35PM	Dannenhoffer	NON-MAE students ONLY for M006-M009.
<i>Register for recitation M006 or M009; Main Section M008 will auto-enroll.</i>						
14085	SEC	M008	MWF	10:35AM-11:30AM	Dannenhoffer	3.0 NON-MAE students ONLY for M006-M009.
14106	REC	M009	M	12:45PM-01:40PM	Dannenhoffer	NON-MAE students ONLY for M006-M009.
14150	REC	M011	F	09:30AM-10:25AM	Davidson	MAE Students Only M001-M005; M011-M012.
14151	REC	M012	F	10:35AM-11:30AM	Davidson	MAE Students ONLY M001-M005; M011-M012.
<i>Register for recitation M014 or M015, main section M013 will auto-enroll.</i>						
14177	SEC	M013	MWF	11:40AM-12:35PM	Mac Namara	3.0 CIE students ONLY for M013-M015.
14178	REC	M014	M	10:35AM-11:30AM	Mac Namara	CIE students ONLY for M013-M015.
14179	REC	M015	W	10:35AM-11:30AM	Mac Namara	CIE students ONLY for M013-M015.
ECS 300 Selected Topics						
14370	SEC	M001	TTh	11:00AM-12:20PM	Povinelli	3.0 Class Topic: Intro to Engr Innovation Entre.
ECS 325 Mechanics of Solids — Prereq: ECS 221; Coreq: MAT 397.						
<i>Register for recitation M002; section M001 will auto-enroll.</i>						
14096	SEC	M001	TTh	09:30AM-10:50AM	Roppo	4.0 TA
			W	03:45PM-04:40PM		
14097	REC	M002	M	11:40AM-12:35PM	Roppo	
ECS 326 Engr Materials/Prop/Processing						
14083	SEC	M001	TTh	03:30PM-04:50PM	Staff	3.0
14084	REC	M002	T	12:30PM-01:50PM	Gilbert	Department Consent Required.
14109	REC	M003	Th	12:30PM-01:50PM	Gilbert	Department Consent Required.
14135	REC	M004	Th	02:00PM-03:20PM	Gilbert	
14165	REC	M005	T	02:00PM-03:20PM	Gilbert	
14366	SEC	M006	TTh	03:30PM-04:50PM	Blum	3.0
14367	REC	M007	F	12:45PM-02:05PM	Blum	
14368	REC	M008	W	05:15PM-06:35PM	Blum	
14369	REC	M009	F	02:15PM-03:35PM	Blum	
ECS 370 Professional Practice						
14003	SEC	M001		TBA	Davis	0.0 Proposal required.
ECS 375 AEW Facilitator Forum						
14242	SEC	M003	M	09:30AM-10:25AM	Pynn	1.0 Instructor Consent Required.
14332	SEC	M004	M	05:15PM-06:10PM	Pynn	1.0 Instructor Consent Required.
14331	SEC	M005	T	03:30PM-04:25PM	Pynn	1.0 Instructor Consent Required.
ECS 391 Legal Aspects of Ecs						
14002	SEC	M001	TTh	05:00PM-06:20PM	Burstyn	3.0
ECS 392 Ethical Aspects of ECS						
14020	SEC	M001	MW	08:00AM-09:20AM	Radcliffe	3.0
14402	SEC	M002	MWF	09:30AM-10:25AM	Radcliffe	3.0
ECS 526 Statistics for Engineers — Prereq: ECS 525 or MAT 521.						
14104	SEC	M001	W	05:15PM-08:00PM	Moon	3.0
ECS 600 Selected Topics						
14371	SEC	M001	MW	02:15PM-03:35PM	Povinelli	3.0 Class Topic: Engr Innovation & Entrepreneur.
ECS 651 Strategic Mgmt & Nat Environ — Prereq: ECS 650/BUA 650. Crosslisted with BUA 651.						
14168	SEC	M001	MFSatSun	02:00PM-09:00PM	Moss	3.0 Instructor Consent Required.
ECS 691 Fundamentals of Research						
14108	SEC	M001	W	11:40AM-12:35PM	Phoha	1.0
ELE - Electrical Engineering						
ELE 231 EE Fundamentals I — Prereq: MAT 295.						
<i>Register for one Recitation M002 - M007; Section M001 will auto-enroll.</i>						
14004	SEC	M001	MWF	09:30AM-10:25AM	Marcy	3.0
14035	REC	M002	M	03:45PM-04:40PM	Marcy	Meets with ELE 231 M009.
14037	REC	M004	T	02:00PM-02:55PM	Marcy	Meets with ELE 231 M011.
14039	REC	M006	W	03:45PM-04:40PM	Marcy	Meets with ELE 231 M012.
14124	REC	M007	Th	12:30PM-01:25PM	Marcy	Meets with ELE 231 M013.
<i>Register for one Recitation M009 - M013; Section M008 will auto-enroll.</i>						
14125	SEC	M008	MWF	10:35AM-11:30AM	Marcy	3.0
14126	REC	M009	M	03:45PM-04:40PM	Marcy	Meets with ELE 231 M002.
14128	REC	M011	T	02:00PM-02:55PM	Marcy	Meets with ELE 231 M004.
14129	REC	M012	W	03:45PM-04:40PM	Marcy	Meets with ELE 231 M006.
14130	REC	M013	Th	12:30PM-01:25PM	Marcy	Meets with ELE 231 M007.
ELE 232 EE Fundamentals II — Prereq: ELE 231.						
<i>Register for Recitation M002 or M003; Section M001 will auto-enroll.</i>						
14022	SEC	M001	MW	02:15PM-03:35PM	Velipasalar	3.0
14054	REC	M002	T	06:30PM-07:25PM	Velipasalar	
14239	REC	M003	T	02:00PM-02:45PM	Velipasalar	
ELE 270 Experience Credit						
20224	SEC	M001		TBA	Staff	1.0 6.0 Department Consent Required. Proposal required.
ELE 290 Independent Study						
20228	SEC	M001		TBA	Staff	1.0 6.0 Department Consent Required. Proposal required.
ELE 291 EE Laboratory I — Coreq: ELE 231.						
14005	SEC	M001	M	12:45PM-03:35PM	Tetley	1.0
14006	SEC	M002	T	03:30PM-06:20PM	Tetley	1.0
14007	SEC	M003	W	12:45PM-03:35PM	Tetley	1.0
14008	SEC	M004	Th	03:30PM-06:20PM	Tetley	1.0
14009	SEC	M005	M	06:45PM-09:35PM	Tetley	1.0
14064	SEC	M006	F	12:45PM-03:35PM	Tetley	1.0
14092	SEC	M007	W	06:45PM-09:35PM	Tetley	1.0
14093	SEC	M008	Th	06:30PM-09:20PM	Tetley	1.0
ELE 292 Electrical Lab II — Prereq: ELE 291; Coreq: ELE 232.						
14057	SEC	M001	F	03:45PM-06:35PM	Tetley	1.0
ELE 324 Electromagnetics I — Prereq: MAT 397 and (PHY 212 or 216). Crosslisted with PHY 424.						
<i>Register for Recitation M002 or M003; Section M001 will auto-enroll.</i>						
14010	SEC	M001	TTh	09:30AM-10:50AM	Lee	3.0
14040	REC	M002	M	11:40AM-12:35PM	Lee	

Subject & Course Title
Cat Nbr

College of Engineering and Computer Science

Subject & Course Title Cat Nbr	Component			Meeting Days & Times	Instructor	Min Units	Max Units	Comments
	Class Nbr	Type	Nbr					
ELE 331	Digital Circuits/Systems — Prereq: ELE 232.							
	<i>Register for one Recitation M002 - M003; Section M001 will auto-enroll.</i>							
	14011	SEC	M001	TTh	12:30PM-01:50PM	Bujanovic	3.0	
	14041	REC	M002	W	09:30AM-10:25AM	Graham		
ELE 351	System & Signal Analysis — Prereq: ELE 232 and MAT 296.							
	<i>Register for one Recitation M002 - M004; Section M001 will auto-enroll.</i>							
	14012	SEC	M001	TTh	02:00PM-03:20PM	Liang	3.0	
	14043	REC	M003	W	05:15PM-06:35PM	Liang		
ELE 391	Digital Circuits Laboratory — Prereq: ELE 292; Coreq: ELE 331.							
	14013	SEC	M001	MW	12:45PM-03:35PM	Bujanovic	3.0	
ELE 417	Power Electronics — Prereq: ELE 314. Double numbered with ELE 617.							
	14329	SEC	M001	MW	02:15PM-03:35PM	Etekhajnejad	3.0	
ELE 425	Microwave Engineering — Prereq: ELE 424.							
	14123	SEC	M001	MW	03:45PM-05:05PM	Staff	3.0	
ELE 452	Digital Audio Signal Process. — Double numbered with ELE 652.							
	20645	SEC	M001	TBA		Marcy	3.0	
ELE 464	Intro to Visi Design — Prereq: CSE 261. Crosslisted with CSE 464.							
	<i>Enroll in Recitation M002</i>							
	14132	SEC	M001	TTh	03:30PM-04:50PM	Qiu	3.0	
	14133	REC	M002	F	11:40AM-12:35PM	Qiu		
ELE 470	Experience Credit							
	20225	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 490	Independent Study							
	20229	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 491	Senior Design Project I							
	14181	SEC	M001	TTh	11:00AM-12:20PM	Marcy	1.0	
ELE 516	Control of Robots — Crosslisted with CIS 543.							
	14087	SEC	M001	MW	02:15PM-03:35PM	Tetley	3.0	
ELE 551	Communication Systems — Prereq: ELE 351.							
	<i>Register for Recitation M002 and Section M001 will auto-enroll.</i>							
	14075	SEC	M001	TTh	02:00PM-03:20PM	Gursoy	3.0	
ELE 590	Independent Study							
	20230	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 591	Spec Prob Elec Eng							
	14233	SEC	M001	TTh	03:30PM-04:50PM	Bujanovic	3.0	Class Topic: Dist Gen Intrgr in Smrt Grd. Meets with 691 M002.
ELE 606	Probabilistic Methods/ECE							
	14063	SEC	M001	F	09:30AM-12:15PM	Chen	3.0	
ELE 612	Modern Control Syst Synth							
	14390	SEC	M001	MW	03:45PM-05:05PM	Staff	3.0	
ELE 617	Power Electronics — Double numbered with ELE 417.							
	14330	SEC	M001	MW	02:15PM-03:35PM	Etekhajnejad	3.0	
ELE 621	Electromagnetic Fields							
	14076	SEC	M001	TTh	02:00PM-03:20PM	Lee	3.0	
ELE 635	Digital Electr. Circuits							
	20647	SEC	M001	TBA		Ghosh	3.0	
ELE 652	Digital Audio Signal Process. — Double numbered with ELE 452.							
	20646	SEC	M001	TBA		Marcy	3.0	
ELE 659	Digital Signal Process I							
	14077	SEC	M001	TTh	11:00AM-12:20PM	Song	3.0	
ELE 664	VLSI Design Methods — Crosslisted with CSE 664.							
	14131	SEC	M001	MW	02:15PM-03:35PM	Wang	3.0	
ELE 670	Experience Credit							
	20226	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 690	Independent Study							
	20231	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 691	Special Topics in ELE							
	14234	SEC	M002	TTh	03:30PM-04:50PM	Bujanovic	3.0	Class Topic: Dist. Gen. Intrgr. in Smrt Grd. Meets with ELE 591 M001.
ELE 722	Microwave Filters — Prereq: ELE 623.							
	14384	SEC	M001	TTh	03:30PM-04:50PM	Graham	3.0	
ELE 723	Microwave Transis. Amplifiers — Prereq: ELE 623.							
	14231	SEC	M001	Th	05:00PM-06:20PM	Choi	3.0	
				T	05:00PM-06:20PM			
ELE 726	Computatnl Meth/Fid Theory — Prereq: ELE 621.							
	20651	SEC	M001	TBA		Sarkar	3.0	
ELE 751	Wireless Communications — Prereq: ELE 606 and 651.							
	14232	SEC	M001	TTh	09:30AM-10:50AM	Gursoy	3.0	
ELE 757	Information Theory — Prereq: ELE 606; Coreq: ELE 651.							
	20652	SEC	M001	TBA		Chen	3.0	
ELE 790	Independent Study							
	20232	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 791	Adv Topics in Elec Engrg							
	14422	SEC	M009	W	03:45PM-06:30PM	Liang	3.0	Class Topic: Optimization-Machine Learning.
ELE 890	Independent Study							
	20233	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 970	Experience Credit							
	20227	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 990	Independent Study							
	20234	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required. Proposal required.
ELE 997	Masters Thesis							
	14014	SEC	M001	TBA		Staff	1.0	6.0 Department Consent Required.

MAE - Mechanical & Aerospace Engrng

MAE 312	Engineering Analysis — Prereq: ECS 104 and MAT 485.							
	14373	SEC	M001	MWF	09:30AM-10:25AM	Levy	3.0	
	20641	SEC	M002	MWF	10:35AM-11:30AM	Levy	3.0	
MAE 315	Mechncil/Aerosp Engr Lab — Prereq: ECS 325; Coreq: MAE 341.							
	<i>Register for one Lab M002 - M009; Section M001 will auto-enroll.</i>							
	14015	SEC	M001	MW	08:25AM-09:20AM	Glauser	3.0	
	14044	LAB	M002	M	03:45PM-06:30PM	Glauser		
	14045	LAB	M003	M	12:45PM-03:45PM	Glauser		
	14046	LAB	M004	W	03:45PM-06:30PM	Glauser		

Subject & Course Title
Cat Nbr

College of Engineering and Computer Science

Class Nbr	Component		Meeting Days & Times	Instructor	Min Max Units	Comments
	Type	Nbr				
14047	LAB	M005	W	12:45PM-03:45PM		Glauser
14048	LAB	M006	T	11:00AM-01:50PM		Glauser
14134	LAB	M007	Th	09:30AM-12:20PM		Glauser
14148	LAB	M008	F	12:45PM-03:35PM		Glauser
14162	LAB	M009	T	05:00PM-07:50PM		Glauser
MAE 341	Fluid Mechanics — Prereq: ECS 221 and MAT 397 and (PHY 211 or 215).					
<i>Register for 1 recitation M002-M007; main section M001 will auto-enroll.</i>						
14016	SEC	M001	TTh	08:00AM-09:20AM	4.0	Ali
			F	09:30AM-10:25AM		
14049	REC	M002	T	09:30AM-10:25AM		Ali
14050	REC	M003	W	10:35AM-11:30AM		Ali
14052	REC	M004	W	11:40AM-12:35PM		Ali
14051	REC	M005	Th	09:30AM-10:25AM		Ali
14053	REC	M006	W	05:15PM-06:10PM		Ali
MAE 430	Intro. to Design Optimization — Prereq: MAT 397 and MAT 414.					
20319	SEC	M001	TTh	05:00PM-06:20PM	3.0	Dannenhoffer
MAE 500	Selected Topics					
14267	SEC	M001	MW	05:15PM-06:35PM	3.0	Maroo
14389	SEC	M003	MW	12:45PM-02:05PM	3.0	Roppo
						Class Topic: Fundmtl of Nano Sci/Nano Engr. .
						Class Topic: Robotics:Algorithms&Control.
MAE 548	Engr Econ & Tech Valuation — Prereq: MAT 296. Crosslisted with CIE 548.					
14122	SEC	M001	Th	03:30PM-06:15PM	3.0	Khalifa
MAE 553	HVAC Systems — Prereq: MAE 251.					
14121	SEC	M001	Th	09:30AM-12:15PM	3.0	Zhang
MAE 573	Applic of Finite Elemnt Ansys — Prereq: ECS 325 and MAT 485.					
14328	SEC	M001	TTh	12:30PM-01:50PM	3.0	Dalir
MAE 588	Principles of Wind Turbines — Prereq: MAE 341.					
14254	SEC	M001	TTh	05:00PM-06:20PM	3.0	Murthy
MAE 600	Selected Topics					
14380	SEC	M001	MW	03:45PM-05:05PM	3.0	Zhang
						Class Topic: Computational Solid Mechanics. MAE 600 is a graduate level course on the theory and implementation of the finite element method for solving boundary value problems in solid mechanics. On completing the course, you should be: (i) Familiar with the theoretical foundations of the finite element method; (ii) Able to use the commercial finite element code ABAQUS, (including user-elements) and open source finite element codes, such as FEniCS; and (iii) Able to use and extend your own finite element code to solve boundary and initial value problems in solid mechanics. Prerequisites: MAE 635 and MAE 675, MAE 721 is helpful but not essential; experience with MATLAB is helpful.
						Prerequisites: MAE 635 and MAE 675.
MAE 626	Vibration of Mech Systems					
14327	SEC	M001	TTh	12:30PM-01:50PM	3.0	Murthy
MAE 635	Adv Mech of Materials — Prereq: ECS 325.					
14102	SEC	M001	MW	05:15PM-06:35PM	3.0	Davidson
MAE 643	Fluid Dynamics — Prereq: MAE 341 or CEN 333. Crosslisted with CEN 643.					
<i>meets with CEN 643</i>						
14086	SEC	M001	TTh	08:00AM-09:20AM	3.0	Dang
MAE 655	Advanced Heat Transfer					
20793	SEC	M001		TBA	3.0	Maroo
MAE 675	Methods of Analysis/Mee					
14103	SEC	M001	MW	08:00AM-09:20AM	3.0	Staff
MAE 994	Capstone Project					
14105	SEC	M001		TBA	0.0	Staff
MAE 995	Graduate Seminar					
14059	SEC	M001	F	02:15PM-03:35PM	0.0	Roppo
MEE - Mechanical Engineering						
MEE 400	Selected Topics					
20674	SEC	M001	MW	08:00AM-09:20AM	3.0	Carranti
MEE 416	Mechanical Egrng Lab — Prereq: MAE 251 and MAE 315 and MAE 341 and MAE 355.					
14112	SEC	M001	W	09:30AM-10:25AM	3.0	Zhang
14113	LAB	M002	M	12:45PM-03:35PM		Zhang
14114	LAB	M003	W	12:45PM-03:35PM		Zhang
14115	LAB	M004	Th	05:00PM-08:00PM		Zhang
14116	LAB	M005	T	03:30PM-06:20PM		Zhang
20797	LAB	M006	M	03:45PM-06:30PM		Zhang
20800	LAB	M007	W	03:45PM-06:30PM		Zhang
20815	LAB	M008	T	11:00AM-01:50PM		Zhang
20816	LAB	M009	Th	09:30AM-12:20PM		Zhang
MEE 471	Design Practice — Prereq: MEE 332 and MAE 184.					
14017	SEC	M001	TTh	02:00PM-03:20PM	3.0	Blum Carranti
MEE 571	Computer Aided Design — Prereq: MAE 184 and MAT 485.					
14018	SEC	M001	T	03:30PM-04:50PM	3.0	Roy TA
			Th	03:30PM-04:50PM		
MEE 996	Special Projects					
14019	SEC	M001		TBA	1.0 6.0	Dalir Dang Glauser Maroo Roy Zhang
MFE - Manufacturing Engineering						
MFE 639	Cad/Cam Systems					
14161	SEC	M001	T	09:30AM-12:15PM	3.0	Roy TA
SIS - Systems & Information Science						
SIS 300	Selected Topics					
14409	SEC	M001	M	05:15PM-06:35PM	3.0	Stringer
			W	05:15PM-06:35PM		
						Class Topic: Info Mangmnt Concepts & Fndmnt.