

Course Schedule - Fall 2008

Engineering

100 **Engineering Orientation** credit: 0 hours.

Orientation required of new freshmen in the College of Engineering. Approved for S/U grading only.

Freshmen should enroll in the section corresponding to their major.

CRN	Type	Section	Time	Days	Location	Instructor
34132	lecture	AB1	03:00 PM - 03:50 PM	TR	room 1032 Foreign Languages Bldg	Larson, S; Pulling, K
34132: Agricultural Engineering Meets 25-Aug-08 - 30-Sep-08.						
34136	lecture	AB2	04:00 PM - 04:50 PM	TR	room 127 English Bldg	Larson, S; Pulling, K
34136: Agricultural Engineering Meets 25-Aug-08 - 30-Sep-08.						
34117	lecture	AE1	03:00 PM - 03:50 PM	TR	room 1109 Siebel Center for Comp Sci	Larson, S; Pulling, K
34117: Aerospace Engineering Meets 25-Aug-08 - 30-Sep-08.						
34119	lecture	AE2	04:00 PM - 04:50 PM	TR	room 206 Transportation Bldg	Larson, S; Pulling, K
34119: Aerospace Engineering Meets 25-Aug-08 - 30-Sep-08.						
34121	lecture	AE3	03:00 PM - 03:50 PM	TR	room 305 Materials Science and Eng Bld	Larson, S; Pulling, K
34121: Aerospace Engineering Meets 25-Aug-08 - 30-Sep-08.						
34124	lecture	AE4	04:00 PM - 04:50 PM	TR	room 143 Everitt Elec and Comp Engr Lab	Larson, S; Pulling, K
34124: Aerospace Engineering Meets 25-Aug-08 - 30-Sep-08.						
34127	lecture	AE5	03:00 PM - 03:50 PM	TR	room 105 Talbot Laboratory	Larson, S; Pulling, K
34127: Aerospace Engineering Meets 25-Aug-08 - 30-Sep-08.						
34130	lecture	AE6	03:00 PM - 03:50 PM	TR	room 260 Mechanical Engineering Bldg	Larson, S; Pulling, K
34130: Aerospace Engineering Meets 25-Aug-08 - 30-Sep-08.						

40911	lecture	BI1	03:00 PM - 03:50 PM	TR	room 336 Mechanical Engineering Bldg	Larson, S; Pulling, K
40911: BioengineeringMeets 25-Aug-08 - 30-Sep-08.						
34137	lecture	CE1	03:00 PM - 03:50 PM	TR	room 325 Gregory Hall	Larson, S; Pulling, K
34137: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34141	lecture	CE2	04:00 PM - 04:50 PM	TR	room 105 Talbot Laboratory	Larson, S; Pulling, K
34141: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34143	lecture	CE3	03:00 PM - 03:50 PM	TR	room 1018 Foreign Languages Bldg	Larson, S; Pulling, K
34143: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34147	lecture	CE4	04:00 PM - 04:50 PM	TR	room 204 Transportation Bldg	Larson, S; Pulling, K
34147: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34149	lecture	CE5	03:00 PM - 03:50 PM	TR	room 1134 Foreign Languages Bldg	Larson, S; Pulling, K
34149: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34153	lecture	CE6	04:00 PM - 04:50 PM	TR	room 312 Davenport Hall	Larson, S; Pulling, K
34153: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34227	lecture	CE7	03:00 PM - 03:50 PM	TR	room 304 Noyes Laboratory	Larson, S; Pulling, K
34227: Civil and Environmental EngineeringMeets 25-Aug-08 - 30-Sep-08.						
49978	lecture	CH1	03:00 PM - 03:50 PM	TR	room 441 Altgeld Hall	Larson, S; Pulling, K
49978: Chemical EngineeringMeets 25-Aug-08 - 30-Sep-08.						
49982	lecture	CH2	12:00 PM - 12:50 PM	TR	room 344 Mechanical Engineering Bldg	Larson, S; Pulling, K
49982: Chemical EngineeringMeets 25-Aug-08 - 30-Sep-08.						
49984	lecture	CH3	04:00 PM - 04:50 PM	TR	room 336 Mechanical Engineering Bldg	Larson, S; Pulling, K
49984: Chemical EngineeringMeets 25-Aug-08 - 30-Sep-08.						

49985	lecture	CH4	06:00 PM - 06:50 PM	TR	room 257 Everitt Elec and Comp Engr Lab	Larson, S; Pulling, K
49985: Chemical EngineeringMeets 25-Aug-08 - 30-Sep-08.						
49986	lecture	CH5	12:00 PM - 12:50 PM	TR	room 143 Loomis Laboratory	Larson, S; Pulling, K
49986: Chemical EngineeringMeets 25-Aug-08 - 30-Sep-08.						
50801	lecture	CH6	04:00 PM - 04:50 PM	TR	room 260 Mechanical Engineering Bldg	Larson, S; Pulling, K
50801: Chemical EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34155	lecture	CS1	03:00 PM - 03:50 PM	TR	room 344 Mechanical Engineering Bldg	Larson, S; Pulling, K
34155: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34158	lecture	CS2	04:00 PM - 04:50 PM	TR	room 344 Mechanical Engineering Bldg	Larson, S; Pulling, K
34158: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34161	lecture	CS3	03:00 PM - 03:50 PM	TR	room 301 Noyes Laboratory	Larson, S; Pulling, K
34161: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34164	lecture	CS4	04:00 PM - 04:50 PM	TR	room 301 Noyes Laboratory	Larson, S; Pulling, K
34164: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34167	lecture	CS5	03:00 PM - 03:50 PM	TR	room 315 Gregory Hall	Larson, S; Pulling, K
34167: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34169	lecture	CS6	04:00 PM - 04:50 PM	TR	room 252 Mechanical Engineering Bldg	Larson, S; Pulling, K
34169: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34212	lecture	CS7	03:00 PM - 03:50 PM	TR	room 7 Illini Hall	Larson, S; Pulling, K
34212: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						
34175	lecture	CS8	04:00 PM - 04:50 PM	TR	room 1109 Siebel Center for Comp Sci	Larson, S; Pulling, K
34175: Computer ScienceMeets 25-Aug-08 - 30-Sep-08.						

34183	lecture	EE1	03:00 PM - 03:50 PM	TR	room 256 Mechanical Engineering Bldg	Larson, S; Pulling, K
34183: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34185	lecture	EE2	04:00 PM - 04:50 PM	TR	room 256 Mechanical Engineering Bldg	Larson, S; Pulling, K
34185: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34188	lecture	EE3	03:00 PM - 03:50 PM	TR	room 203 Nuclear Engineering Lab	Larson, S; Pulling, K
34188: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34190	lecture	EE4	04:00 PM - 04:50 PM	TR	room 214 Ceramics Bldg	Larson, S; Pulling, K
34190: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34192	lecture	EE5	12:00 PM - 12:50 PM	TR	room 147 Loomis Laboratory	Larson, S; Pulling, K
34192: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34194	lecture	EE6	12:00 PM - 12:50 PM	TR	room 137 Loomis Laboratory	Larson, S; Pulling, K
34194: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34196	lecture	EE7	03:00 PM - 03:50 PM	TR	room 164 Noyes Laboratory	Larson, S; Pulling, K
34196: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34199	lecture	EE8	04:00 PM - 04:50 PM	TR	room 164 Noyes Laboratory	Larson, S; Pulling, K
34199: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34201	lecture	EE9	03:00 PM - 03:50 PM	TR	room 300 Noyes Laboratory	Larson, S; Pulling, K
34201: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34203	lecture	EEA	04:00 PM - 04:50 PM	TR	room 300 Noyes Laboratory	Larson, S; Pulling, K
34203: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34207	lecture	EEB	03:00 PM - 03:50 PM	TR	room 136 Burrill Hall	Larson, S; Pulling, K
34207: Electrical and Computer Engineering Meets 25-Aug-08 - 30-Sep-08.						
34172	lecture	EEC	04:00 PM - 04:50 PM	TR	room 1105 Siebel Center for Comp Sci	Larson, S; Pulling, K

34172: Electrical and Computer EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34213	lecture	EED	04:00 PM - 04:50 PM	TR	room 170 Everitt Elec and Comp Engr Lab	Larson, S; Pulling, K
34213: Electrical and Computer EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34224	lecture	EP1	03:00 PM - 03:50 PM	TR	room 1 Illini Hall	Larson, S; Pulling, K
34224: Engineering PhysicsMeets 25-Aug-08 - 30-Sep-08.						
45822	lecture	EP2	04:00 PM - 04:50 PM	TR	room 257 Everitt Elec and Comp Engr Lab	Larson, S; Pulling, K
45822: Engineering PhysicsMeets 25-Aug-08 - 30-Sep-08.						
34252	lecture	GE1	03:00 PM - 03:50 PM	TR	room 225A Talbot Laboratory	Larson, S; Pulling, K
34252: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34228	lecture	GE2	04:00 PM - 04:50 PM	TR	room 7 Illini Hall	Larson, S; Pulling, K
34228: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34230	lecture	GE3	03:00 PM - 03:50 PM	TR	room 203 Noyes Laboratory	Larson, S; Pulling, K
34230: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34232	lecture	GE4	04:00 PM - 04:50 PM	TR	room 309 English Bldg	Larson, S; Pulling, K
34232: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34234	lecture	GE5	03:00 PM - 03:50 PM	TR	room 150 English Bldg	Larson, S; Pulling, K
34234: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34237	lecture	GE6	04:00 PM - 04:50 PM	TR	room 156 English Bldg	Larson, S; Pulling, K
34237: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34238	lecture	GE7	04:00 PM - 04:50 PM	TR	room 303 Noyes Laboratory	Larson, S; Pulling, K
34238: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34239	lecture	GE8	03:00 PM - 03:50 PM	TR	room 1118 Foreign Languages Bldg	Larson, S; Pulling, K
34239: General EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34241	lecture	IE1	04:00 PM - 04:50 PM	TR	room 212	Larson, S; Pulling, K

			PM		Davenport Hall	
34241: Industrial EngineeringMeets 25-Aug-08 - 30-Sep-08.						
34242	lecture	ME1	03:00 PM - 03:50 PM	TR	room 242 Armory	Larson, S; Pulling, K
34242: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
34244	lecture	ME2	04:00 PM - 04:50 PM	TR	room 135 English Bldg	Larson, S; Pulling, K
34244: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
34245	lecture	ME3	03:00 PM - 03:50 PM	TR	room 125 English Bldg	Larson, S; Pulling, K
34245: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
34247	lecture	ME4	04:00 PM - 04:50 PM	TR	room 125 English Bldg	Larson, S; Pulling, K
34247: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
34248	lecture	ME5	03:00 PM - 03:50 PM	TR	room 321 Gregory Hall	Larson, S; Pulling, K
34248: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
34250	lecture	ME6	04:00 PM - 04:50 PM	TR	room 325 Gregory Hall	Larson, S; Pulling, K
34250: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
40069	lecture	ME7	03:00 PM - 03:50 PM	TR	room 123 English Bldg	Larson, S; Pulling, K
40069: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
34254	lecture	ME8	04:00 PM - 04:50 PM	TR	room 123 English Bldg	Larson, S; Pulling, K
34254: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
40068	lecture	ME9	03:00 PM - 03:50 PM	TR	room 206 Transportation Bldg	Larson, S; Pulling, K
40068: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
45823	lecture	MEA	04:00 PM - 04:50 PM	TR	room 304 Noyes Laboratory	Larson, S; Pulling, K
45823: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						
48146	lecture	MEB	03:00 PM - 03:50 PM	TR	room 252 Mechanical Engineering Bldg	Larson, S; Pulling, K
48146: Mechanical Engineering and Engineering MechanicsMeets 25-Aug-08 - 30-Sep-08.						

48147	lecture	MEC	04:00 PM - 04:50 PM	TR	room 136 Burrill Hall	Larson, S; Pulling, K
48147: Mechanical Engineering and Engineering Mechanics Meets 25-Aug-08 - 30-Sep-08.						
34256	lecture	MS1	03:00 PM - 03:50 PM	TR	room G18 Foreign Languages Bldg	Larson, S; Pulling, K
34256: Material Science and Engineering Meets 25-Aug-08 - 30-Sep-08.						
34258	lecture	MS2	04:00 PM - 04:50 PM	TR	room 168 Everitt Elec and Comp Engr Lab	Larson, S; Pulling, K
34258: Material Science and Engineering Meets 25-Aug-08 - 30-Sep-08.						
40070	lecture	MS3	03:00 PM - 03:50 PM	TR	room 153 Mechanical Engineering Bldg	Larson, S; Pulling, K
40070: Material Science and Engineering Meets 25-Aug-08 - 30-Sep-08.						
34259	lecture	NU1	03:00 PM - 03:50 PM	T	room 204 Transportation Bldg	Larson, S; Pulling, K
34259: Nuclear, Plasma and Radiological Engineering						
48163	lecture	OP1	12:00 PM - 12:50 PM	TR	room 252 Mechanical Engineering Bldg	Larson, S; Pulling, K
48163: Instructor Approval Required Open to all engineering majors with Instructor Approval. Meets 25-Aug-08 - 30-Sep-08.						

198 **Special Topics** credit: 1 to 4 hours.

Study of selected topics in regular course format; variable content. Approved for both letter and S/U grading. May be repeated in the same or separate term as topics vary. Prerequisite: As specified for each topic offering; see Schedule or college course information.

CRN	Type	Section	Time	Days	Location	Instructor
51915	lecture-discussion	CIV	11:00 AM - 12:15 PM	TR	room 1109 Siebel Center for Comp Sci	Litchfield, J
51915: 4 hours Creativity, Innovation and Vision. Creativity is a skill that you can use often, and this course will help you increase your creativity. Studying a mix of theory and practice, you will explore the nature of creativity, how creativity works and how vision becomes reality. You will practice techniques to enhance personal and group creativity. A major semester project will allow you the opportunity to (a) create a product, process or service or (b) create solutions for a nonprofit organization with a self-defined need or opportunity. Open to all majors and levels. For more information, see: http://www.engr.uiuc.edu/moodle/course/						
51901	lecture	EAI	04:00 PM - 04:50 PM	M	room 151 Loomis Laboratory	Hirschi, M

51901: 1 hoursEngineering At Illinois! Introduction to undergraduate programs of study available in the College of Engineering and the potential careers of graduates of those programs. Course is aimed at students in the Division of General Studies who may be interested in an Engineering major or other students who wish to explore engineering careers

52579	lecture-discussion	PRK	03:00 PM - 03:50 PM	T	room 257 Everitt Elec and Comp Engr Lab	Larson, C
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52579: 1 hoursIntroductory course for Parkland Pathway students.

199 **Undergraduate Open Seminar** credit: 0 to 5 hours.
Approved for both letter and S/U grading. May be repeated.

Students registering for a discussion (AD_) must also register for the lecture (AL1) section.

CRN	Type	Section	Time	Days	Location	Instructor
34369	lecture-discussion	I	03:00 PM - 03:50 PM	R	room 100 Materials Science and Eng Bld	Finis, T; Ravaioli, U

34369: 1 hoursTopic: International Dimens of Engrg.

50388	lecture-discussion	M	03:00 PM - 03:50 PM	W	room 112 Transportation Bldg	Linnemeyer, S; Walker, K
	lecture-discussion	M	06:00 PM - 07:50 PM	M	room 112 Transportation Bldg	Linnemeyer, S; Walker, K

: 3 hoursInstructor Approval RequiredThe Mentoring Class is based upon key elements of mentoring, structured study sessions, and professional skill development. The class will meet weekly for a lecture/discussion where academic and professional skills for success will be covered. Freshmen mentees will be matched with mentors, upperclasspersons from the same department. Mentee/mentor pairs will meet weekly in a structured study session where tutors will be made available. In addition, the pairs will meet outside of class at least once a week.

52924	conference	MCE	ARRANGED			Finis, T
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52924: 4 hoursInstructor Approval RequiredMulticultural experiences for foreign exchange students to the University of Illinois College of Engineering. Includes campus/college orientation, language and culture related to technical studies, visits to engineering courses, and technical field trips.Meets 25-Aug-08 - 18-Oct-08.

46104	lecture-discussion	R	03:00 PM - 03:50 PM	R	room 204 Transportation Bldg	Alcantara, M; Wendt, L
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46104: 1 hoursTopic: Lego/Vex Robotics Grades 4-12. A service learning course for students interested in working in our area schools. Using Lego Robotics (grades 4-8) and Vex Robotics (grades 9-12), engineering students work with teams of kids in robotics competitions for 3 to 4 hours per week. The class meets formally once a week where students receive instruction in robotics and team management.

50920	lecture	R2	05:00 PM - 05:50 PM	W	room 1302 Siebel Center for Comp Sci	Alcantara, M; Wendt, L
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50920: 1 hoursTopic: Lego/Vex Robotics Grades 4-12. A service learning course for students interested in working in our area schools. Using Lego Robotics (grades 4-8) and Vex Robotics (grades 9-12), engineering students work with teams of kids in robotics competitions for 3 to 4 hours per week. The class meets formally once a week where students receive instruction in robotics and team management.

48210	conference	SNC	ARRANGED			Srajek, L
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48210: 2 hoursInstructor Approval Required

41797	lecture-discussion	TM	12:00 PM - 12:50 PM	F	room 240 Wohlers Hall	Clarke, J
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41797: 1 hoursDepartmental Approval RequiredTopic: Technology and Management Honors Seminar. Course open to Honors students in Engineering Business disciplines. Prerequisite: 3.5 GPA, Sophomore standing. Contact tech-mgmt@uiuc.edu.

50330	lecture	UGR	02:00 PM - 02:50 PM	R	room 163 Everitt Elec and Comp Engr Lab	Larson, S; Pulling, K
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50330: 1 hoursTopic: Undergraduate Research This course is designed to give undergraduate students background knowledge of engineering research that is currently happening on campus, as well as prepare students to take part in research as an undergraduate scholar. This course is a requirement for students participating in the ISUR program for the first time.

34372	conference	W	04:00 PM - 05:50 PM	M	room ARR Illini Union	Linnemeyer, S; Walker, K
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34372: 1 hoursTopic: Leadership & Profll Skill Devel. A mentoring course for freshman and upperclass women in Engineering. Students obtain skills in leadership, professional development, networking, the importance of mentoring relationships, and how to succeed in engineering. Women who have taken this course have a three times greater retention rate. The course meets formally every two weeks and informally on alternate weeks.

201 **Cooperative Engrg Seminar** credit: 0 hours.

Discussion seminar addressing insights students have gained as a result of their co-op experience. Includes presentations by co-op participants and discussion of presentation skills. Approved for S/U grading only. For on-campus Cooperative Education students only.

CRN	Type	Section	Time	Days	Location	Instructor
30112	lecture-discussion	A	05:00 PM - 05:50 PM	M	room 245 Everitt Elec and Comp Engr Lab	Zehr, S
30112: Instructor Approval Required						

202 **Cooperative Engrg Practice** credit: 0 hours.

Full-time practice of engineering in an off-campus government, industrial or research laboratory environment. Written work report, on-line Internship and Co-op Experience Report, and on-line ABET report required. Approved for S/U grading only. Approval of the Director of College of Engineering Experiential Learning Programs is required. For Cooperative Education students only.

CRN	Type	Section	Time	Days	Location	Instructor
30114	discussion-recitation	1	ARRANGED			Zehr, S
30114: Instructor Approval Required						

299 **Engineering Study Abroad** credit: 0 to 12 hours.

Provides placeholder Illinois credit for foreign study and/or a mechanism to maintain continuous Illinois enrollment while studying abroad. A detailed proposal must be submitted by the student for approval by the department in which the student is studying and the college office prior to such study abroad. Final determination of credit and its application toward the degree is made after a review of the student's work abroad by the college office. (Summer Session, 0 to 6 hours).

CRN	Type	Section	Time	Days	Location	Instructor
30129	conference	A	ARRANGED			Finis, T

300 **Engg Transfer Orientation** credit: 0 hours.

Orientation required of off-campus transfer students in the College of Engineering. Approved for S/U grading only.

CRN	Type	Section	Time	Days	Location	Instructor
30131	lecture-discussion	T	05:00 PM - 05:50 PM	W	room 100 Materials Science and Eng Bld	Ravaioli, U

310 **Engineering Internship** credit: 0 hours.

Full-time practice of engineering in an off-campus government, industrial, or research laboratory environment. Written work report, on-line Internship and Co-op Experience report and on-line ABET report required. Approved for S/U grading only. Approval of the Director of College of Engineering Experiential Learning Programs is required. May be repeated.

CRN	Type	Section	Time	Days	Location	Instructor
30134	discussion-recitation	1	ARRANGED			Zehr, S
30134: Instructor Approval Required						
30134: It is expected that students will work at least 12 weeks during the semester.						

398 **Special Topics** credit: 1 to 4 hours.

Study of selected topics in regular course format; variable content. Approved for both letter and S/U grading. May be repeated in the same or separate term as topics vary. Prerequisite: As specified for each topic offering; see

Schedule or college course information.

CRN	Type	Section	Time	Days	Location	Instructor
52314	lecture-discussion	LEE	05:00 PM - 06:15 PM	T	room 1404 Siebel Center for Comp Sci	Hollis, L; Singer, A; Clifton, R
52314: 1 hoursFundamental concepts of entrepreneurship and commercialization of new technology in new and existing businesses. Previously listed as GE 498 LLH/LH						

491 **Interdisciplinary Design Proj** credit: 1 to 4 hours.

Provides a disciplined, multi-department, team-structured project design experience which has an overall (or major phase) completion date at the end of the term. Students participate in engineering activities with individual as well as team responsibilities. Projects involve design specification through a proposal, analyses of cost and other tradeoffs among alternative designs, design review, fabrication and assembly, functional and environmental testing, and demonstrations (as applicable). Reports are prepared and presentations are made at the end of each term. Lecture-lab format. 1 to 4 undergraduate hours. Senior standing required. May be repeated. Credit toward the degree is determined by the student's major department. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
41009	lecture	CU1	ARRANGED		room 245 Everitt Elec and Comp Engr Lab	Swenson, G
41009: Please contact the instructor for an evaluation of your prerequisites before registering for the course.						
51964	laboratory	SAE	03:00 PM - 05:50 PM	M	room 114 Transportation Bldg	Philpott, M
51964: 3 hoursInstructor Approval RequiredAdvance work on SAE Formula Car. This course is the first in the design series. The second semester ENG 491 470 is in the spring and counts for ME students as senior design credit.						
41920	lecture	SD	ARRANGED			Chapman, P
41920: 3 hoursStudents are encouraged to get instructor input before registering for this course. Solar Home Engineering I This multidisciplinary course focuses on the engineering aspects of overall design and analysis of residences that use only the sun as an energy source. The course covers a broad range of topics, including photovoltaic power systems, efficient appliances and comfort conditioning, environmentally friendly construction practices, passive building simulation and design, and energy system automation. The course will be taught in the context of a case study of a small solar home. Students will be required to attend regular class meetings, document their work in laboratory notebooks, and to contribute regular reports.						
52140	laboratory	UGR	ARRANGED			Larson, S; Pulling, K
52140: Instructor Approval RequiredResearch credit for Undergraduate Students participating in the Intel Scholars Undergraduate Research Program.						

510 **Engineering Practice** credit: 0 hours.

Full-time practice of engineering in an off-campus government, industrial or research laboratory environment. Written work report, on-line Internship and Co-op Experience report, and on-line ABET report required. Approved for S/U grading only. Approval of the Director of College of Engineering Experiential Learning Programs is required. May be repeated.

CRN	Type	Section	Time	Days	Location	Instructor
30141	discussion-recitation	A	ARRANGED			Zehr, S
30141: Instructor Approval Required						
30141: It is expected that students will work at least 12 weeks during the semester.						