

# MCEN SCHEDULE OF COURSES FALL 2009

## Required Courses:

Updated 09/02/09

Course Number	Call #	Course Title	Days	Time	Room	Instructor
GEEN 1300		Intro to Engineering Computing				This course is recommended for Spring of your freshman year, but it is also available in the Fall.
GEEN 1400-020	76087	First Year Engineering Projects Lab 021	M TR	0900-0950 0900-1050	ITLL 160 ITLL 160	Miller Miller
GEEN 1400-080	76099	First-Year Engineering Projects Lab 081	M WF	0200-0250 0100-0250	ITLL 160 ITLL 160	Reamon Reamon
You may take any section of GEEN 1400, but Profs Reamon & Miller are ME profs.						
GEEN 3400-010	76122	Engr. Proj: Invention & Innovation Lab 011	M TR	1100-1150 0900-1050	ITLL 150 ITLL 150	Carlson/ Sullivan
MCEN 1000-100	79232	Intro. to Mechanical Engineering Lab 101	W	0300-0350	ECCR 265	Stoldt/Terry
	79233	Lab 102	MW	1100-1250	ITLL 2B40	Terry
	79234	Lab 103	MW	0100-0250	ITLL 2B40	Terry
	79234	Lab 103	TR	1000-1150	ITLL 2B40	Terry
	79235	Lab 104	TR	1200-0150	ITLL 2B40	Terry
	79236	Lab 105	TR	0200-0350	ITLL 2B40	Terry
	79237	Lab 106	TR	0400-0550	ITLL 2B40	Terry
	79238	Lab 107	MW	0400-0550	ITLL 2B40	Terry
MCEN 1025-010	79240	Computer-Aided Design & Fabrication Lab 011	M	0300-0350	HUMN 1B50	Carlson
	79242	Lab 013	MW	0900-1050	ECCE 141 E	Carlson
	79244	Lab 015	MW	1100-1250	ECCE 141 W	Carlson
	84333	Lab 016	MW	0100-0250	ECCE 141 W	Carlson
	84335	Lab 018	MW	0100-0250	ECCE 141 E	Carlson
	84336	Lab 019	MW	0400-0550	ECCE 141 E	Carlson
	85661	Lab 020	TR	0200-0350	ECCE 141 E	Carlson
			MW	1100-1250	ECCE 141 E	Carlson
MCEN 2023-001	79248	Statics and Structures	MWF	0900-0950	HLMS 252	Murray
ECEN 3010-010	74053	Circuits and Electronics Lab 011	MW	0400-0450	ECCR 200	Newhall
	74054	Lab 012	M	0100-0250	ITLL 1B10	Newhall
	74055	Lab 013	W	0100-0250	ITLL 1B10	Newhall
			F	1100-1250	ITLL 1B10	Newhall
MCEN 3012-001	79249	Thermodynamics	MWF	0300-0350	MUEN E0046	Daily
MCEN 3208-800	See Larry	Honors Thermodynamics Prereq., Calc 3, and a cumulative GPA 3.2 or higher (standby with 3.0, though).	TR	0200-0315	RAMY N1B31	Milford
MCEN 3021-001	79250	Fluid Mechanics	TR	1230-0145	ECCR 1B40	Hertzberg
MCEN 3030-001	79251	Computational Methods	MWF	0900-0950	ECCR 265	Vasilyev/Henze

MCEN 4026-010		Mfg. Processes and Systems	TR	0500-0615	DUAN G1B20	Nanninga
	79255	Rec 011	T	0230-0320	ECME 1B66	
	84326	Rec 012	R	0230-0320	ECME 1B66	
MCEN 4037-801	See Larry	Measurements Lab (2 credits)	MW	0300-0450	ITLL 1B10	Ding
4037-802	See Larry	Measurements Lab (2 credits)	TR	1230-0220	ITLL 1B10	Miller
This is the 2nd in the 2+2+2 for students who took "Experimental Design" in Spring '09. NOTE: For Fall 2009, this course will have "Controlled Enrollment," because we have 111 potential continuing students, but only 96 slots (48 + 48 in these two lab sections). So to get in, just visit Larry in person, and convince him you can graduate by Aug. 2010. Students who can wait and take "Measurements Lab" in Spring 2010 will have the luxury of a nice small class!						
MCEN 4047-801	See Larry	M.E. (Senior) Lab (2 credits)	TR	0930-1120	ITLL 1B10	Pawlas
Offered both fall and spring, this is the final increment in the 2 + 2 + 2. "Controlled Enrollment" means Larry has to put you in.						
MCEN 4043-010		System Dynamics	MW	1000-1050	MCOLW100	Reamon
	79259	Lab 011	M	1100-1250	ITLL 1B10	Reamon
	79260	Lab 012	W	1100-1250	ITLL 1B10	Reamon
	See Larry	Lab 813	F	1100-1250	ITLL 1B10	Reamon
NOTE: Since we couldn't reserve much space on Fridays in the ITLL, Lab Section 813 has controlled enrollment. So to get in, just visit Larry in person and convince him you need the Friday section to make your schedule work without time conflicts.						
MCEN 4045-100		ME Design Project 1	TR	0330-0445	CHEM 140	Pawlas
	85365	Lab 102	MW	0100-0150	See dept	Pawlas

### **Fall 2009 Technical Electives: Undergrad**

Course Number	Call #	Course Title	Days	Time	Room	Instructor
HONR 4000-880	See Larry	Honors Sustainable Energy	TR	0330-0445	ECCR 118	Kreith
GPA 3.3 and interview with Prof Kreith (fkreith@comcast.net). Standby with 3.0, though.						
MCEN 4117-001	79274	Anatomy & Physiology for Engineers	TR	0930-1045	ECCR 150	Ferguson
	5117-001					
MCEN 4173-020		Finite Element Analysis	MW	0500-0550	ECCR 245	Park
	85332	Lab 021	F	0900-1050	ECCE 141	Park
	85333	Lab 022	F	0100-0250	ECCE 141	Park
	85334	Lab 023	F	0300-0450	ECCE 141	Park
5173-020		Finite Element Analysis	MW	0500-0550		Park
Labs same as above, but with Call Numbers 85336, 85337, & 85338						
MCEN 4228-005	79284	TPC: Mech Failure of Eng Materials	TR	0800-0915	ECCR 150	Murray
MCEN 4228-006	85340	TPC: Intro to Nanoscience	TR	0200-0315	STAD 135	Raj
	5228-006					
MCEN 4228-007	85366	Sustainable Energy	MWF	0200-0250	HLMS 201	Hannigan
	5228-007					

MCEN 4228-008 85428 TPC: Perception of Design (1 Credit) W 1200-1250 ECCR 118 Hertzberg  
Seminar Course is open to all ME majors and graduate students.

MCEN 4848 TPC: Independent Study Various  
Get application form from Larry. Then here are 2 ways you can approach a faculty member.  
1) You can ask them please to mentor you for a project you have in mind.  
2) You can ask if you could please help them with a project they're working on.  
Independent Study represents an opportunity for students to participate in a wide variety of research activities. Go to the M.E. website faculty list ([www.colorado.edu/mechanical](http://www.colorado.edu/mechanical)) to see what areas individual faculty are active in, and make direct contact with the faculty whose research interests you to learn what indep. study opportunities they have available.

### **Fall 2009 Graduate Courses:**

**(Seniors may take 5000 level courses as ME Tech Electives with instructor's permission)**

Course Number	Call #	Course Title	Days	Time	Room	Instructor
MCEN 5020-001	79312	Methods of Eng. Analysis 1	MWF	1100-1150	RAMY N1B23	Vasilyev
MCEN 5021-001	79315	Intro. to Fluid Dynamics (Same as ASEN 5051)	MWF	0300-0350	ECCS 1B12	Desjardins
MCEN 5023-001	79316	Solid Mech 1 (same as ASEN 5012)	MWF	1000-1050	ECCS 1B12	Qi
MCEN 5027-001	79317	Graduate Seminar (1 credit)	R	0330-0445	ECCR 200	Ding
MCEN 5117-001	83541	Anatomy & Physiology for Eng.	TR	0930-1045	ECCR 150	Ferguson
MCEN 5173-020		Finite Element Analysis	MW	0500-0550	ECCR 245	Park, Harold
	85336	Lab 021	F	0900-1050	ECCE 141	Park, Harold
	85337	Lab 022	F	0100-0250	ECCE 141	Park, Harold
	85338	Lab 023	F	0300-0450	ECCE 141	Park, Harold
MCEN 5208-800	See Sharon	TPC: Intro. to Research (1 credit)	MWF	1200-1250	ECCR 150	Bright
MCEN 5228-001	84790	TPC: Materials Chemistry & Structure (Was MCEN 5024 "Materials Science 1.")	MWF	0900-0950	ECCR 108	Stoldt
MCEN 5228-006	85342	TPC: Intro to Nanoscience	TR	0200-0315	STAD 135	Raj
MCEN 5228-007	85367	Sustainable Energy	MWF	0200-0250	HLMS 201	Hannigan
MCEN 5636-001	79324	MEMS 1	TR	1230-0145	ECCR 139	Bunch
MCEN 6228-001	79350	TPC: Aerosols	TR	0930-1045	MUEN E113	Hannigan
MCEN 6228-003	85995	TPC: Microscale Heat Transfer	MWF	0300-0350	ECCR 110	Yang