

Course Schedule - Spring 2007

Bioengineering

202 **Cell & Tissue Engineering Lab** Credit: 2 hours.

A comprehensive hands-on understanding of the principles of cell biology that are inherent in tissue engineering design. Provides experience in safely and skillfully manipulating cells of the four tissue types and performing various quantitative analyses on products produced by cells that have differentiated. Lab reports written in the style accepted by scientific journals will be required. For bioengineering majors with sophomore standing.

CRN	Type	Section	Time	Days	Location	Instructor
46392	laboratory	AB1	01:00 PM - 04:50 PM	M	room ARR Digital Computer Laboratory	Manaster, J
	laboratory	AB1	02:00 PM - 03:50 PM	R	room ARR Digital Computer Laboratory	Manaster, J
: Will meet in room 3110 DCL. This class is restricted to Bioengineering sophomores only.						
46394	laboratory	AB2	04:00 PM - 05:50 PM	R	room ARR Digital Computer Laboratory	Manaster, J
	laboratory	AB2	05:00 PM - 08:50 PM	M	room ARR Digital Computer Laboratory	Manaster, J
: Will meet in 3110 DCL. This class is restricted to Bioengineering sophomores only.						
46395	laboratory	AB3	12:00 PM - 01:50 PM	F		Manaster, J
	laboratory	AB3	01:00 PM - 04:50 PM	T	room ARR Digital Computer Laboratory	Manaster, J
: Will meet in 3110 DCL. This class is restricted to Bioengineering sophomores only.						
46396	lecture	AL1	01:00 PM - 01:50 PM	R	room 218 Mechanical Engineering Bldg	Manaster, J
46396: This class is restricted to Bioengineering sophomores only.						

280 **Biomedical Imaging** Credit: 3 hours.

Same as ECE 280. See ECE 280.

CRN	Type	Section	Time	Days	Location	Instructor
40211	lecture	G	09:00 AM - 10:20 AM	TR	room 103 Talbot Laboratory	Oelze, M

40211: 3 hours

297 Individual Study Credit: 1 to 4 hours.

Special project or reading course for advanced freshman and sophomore level engineering and life science majors. May be repeated in the same or separate terms to a maximum of 12 hours. Prerequisite: Approved written application to department as specified by department or instructor.

CRN	Type	Section	Time	Days	Location	Instructor
45391	independent study		ARRANGED			

45391: Instructor Approval Required

298 Special Topics Credit: 0 to 4 hours.

Study of selected topics in regular course format; variable content. May be repeated in the same or separate terms to a maximum of 8 hours. Prerequisite: As specified for each topic offering; see Class Schedule or departmental course information.

CRN	Type	Section	Time	Days	Location	Instructor
46399	lecture	BW	09:00 AM - 10:50 AM	TR	room 335 Mechanical Engineering Bldg	Wheeler, B

46399: Meets 16-Jan-07 - 09-Mar-07.

46399: 2 hours Circuits in Bioengineering Topic: Circuits and Systems in Bioengineering. This class is restricted to Bioengineering sophomores only.

397 Individual Study Credit: 1 to 4 hours.

Special project or reading course for junior and senior level engineering and life science students. Prerequisite: Approved written application to department as specified by department or instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10412	independent study		ARRANGED			

10412: Instructor Approval Required

398 Special Topics Credit: 1 to 4 hours.

Study of selected topics in regular course format; variable content. May be repeated up to 8 hours. Prerequisite: As specified for each topic offering; see Schedule or departmental course information.

CRN	Type	Section	Time	Days	Location	Instructor
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46430	lecture	BS	01:00 PM - 01:50 PM	MWF	room 1245 Digital Computer Laboratory	Sutton, B
46430: 3 hours Quantitative Human Sys Physiol Topic: Quantitative Human Systems Physiology. This course is restricted to Bioengineering juniors only and will meet in 1245 DCL.						
46402	lecture	MI	09:00 AM - 10:50 AM	TR	room 335 Mechanical Engineering Bldg	Insana, M
46402: 2 hours Systems in Bioengineering Topic: Systems in Bioengineering. This class is restricted to Bioengineering sophomores and juniors only. Meets 12-Mar-07 - 02-May-07.						

414 **Biomedical Instrumentation** Credit: 3 hours.
Same as ECE 414. See ECE 414.

CRN	Type	Section	Time	Days	Location	Instructor
33725	discussion-recitation	B	11:00 AM - 11:50 AM	MWF	room 165 Everitt Elec and Comp Engr Lab	Wheeler, B; Fish, R

415 **Biomedical Instrumentation Lab** Credit: 2 hours.
Same as ECE 415. See ECE 415.

CRN	Type	Section	Time	Days	Location	Instructor
33731	laboratory	AB1	01:00 PM - 03:50 PM	T	room ARR Digital Computer Laboratory	Fish, R
33733	laboratory	AB2	12:00 PM - 02:50 PM	F	room ARR Digital Computer Laboratory	Fish, R
33734	laboratory	AB3	01:00 PM - 03:50 PM	M	room ARR Digital Computer Laboratory	Fish, R
33735	laboratory	AB4	01:00 PM - 03:50 PM	W	room ARR Digital Computer Laboratory	Fish, R
33736	lecture	AL1	11:00 AM - 11:50 AM	T	room 335 Mechanical Engineering Bldg	Wheeler, B; Fish, R

419 **Brain, Behavior & Info Process** Credit: 3 hours.
Same as MCB 419, BIOP 419, and NEUR 419. See MCB 419.

CRN	Type	Section	Time	Days	Location	Instructor
41130	lecture	MN	09:00 AM - 10:20 AM	TR	room 106B6 Engineering Hall	Nelson, M
41130: 3 hours						

472 *Techniques in Biomolecular Eng* Credit: 3 or 4 hours.
Same as CHBE 472. See CHBE 472.

CRN	Type	Section	Time	Days	Location	Instructor
40608	lecture	A	10:00 AM - 11:20 AM	TR	room 8 Chemistry Annex	Pack, D

473 *Biomaterials Laboratory* Credit: 3 hours.
Same as MSE 472. See MSE 472.

CRN	Type	Section	Time	Days	Location	Instructor
46405	laboratory	AB1	01:00 PM - 03:50 PM	MW	room 220 Ceramics Kiln House	Xian, W
46406	laboratory	AB2	01:00 PM - 03:50 PM	TR	room 220 Ceramics Kiln House	Xian, W
46199	lecture-discussion	AE1	11:00 AM - 11:50 AM	MW	room 214 Ceramics Bldg	Xian, W

493 *Senior Research Project* Credit: 2 to 4 hours.
Individual research project under the guidance of a faculty member. Intended for students planning to complete BIOE 499 (Senior Thesis) in the following semester. May be repeated to a maximum of 4 hours. Prerequisite: Consent of instructor.

CRN	Type	Section	Time	Days	Location	Instructor
46628	independent study	RMF	ARRANGED			Fish, R
46628: 2 hours						

497 *Individual Study* Credit: 1 to 4 hours.
Special project or reading course for senior level and graduate engineering and life science majors. May be repeated up to 8 hours in a term to a maximum of 12 hours. Prerequisite: Approved written application to department as specified by department or instructor.

CRN	Type	Section	Time	Days	Location	Instructor
45449	independent study		ARRANGED			
45449: Instructor Approval Required						

500 Graduate Seminar Credit: 1 hours.

Survey lecture course intended to introduce graduate students to a broad range of Bioengineering topics. Approved for S/U grading only. May be repeated to a maximum of 2 hours.

CRN	Type	Section	Time	Days	Location	Instructor
45301	lecture	A	12:00 PM - 12:50 PM	R		Wheeler, B
45301: 1 hours						

501 Seminar Discussion Credit: 1 hours.

This course familiarizes graduate students with reading and discussing academic journals in Bioengineering. Approved for S/U grading only.

CRN	Type	Section	Time	Days	Location	Instructor
45302	lecture-discussion	A	01:00 PM - 01:50 PM	R		Wheeler, B
45302: 1 hours						

597 Individual Study Credit: 1 to 8 hours.

Special project or reading course for graduate engineering and life science majors. Prerequisite: Approved written application to department as specified by department or instructor.

CRN	Type	Section	Time	Days	Location	Instructor
10413	independent study		ARRANGED			
10413: Instructor Approval Required						

598 Special Topics Credit: 1 to 4 hours.

Study of selected topics in regular course format; variable content. May be repeated up to 8 hours a term to a total of 12 hours. Prerequisite: As specified for each topic offering; see Schedule or departmental course information.

CRN	Type	Section	Time	Days	Location	Instructor
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46468	lecture	GEN	03:00 PM - 05:50 PM	W	room ARR Digital Computer Laboratory	Zhong, S
46468: 3 hoursTopic: Current Research in Bioinformatics. Will meet in 3211 DCL. This course is restricted to graduate students only; requires consent of instructor.						
46922	lecture	GP	08:00 AM - 08:50 AM	W		Pijanowski, G
46922: 1 hoursTopic: Intro to Orthopedic Biomechanics.						
46520	lecture	PW	09:00 AM - 10:50 AM	M	room 106B6 Engineering Hall	Wang, Y
46520: 2 hoursMolecular & Cellular EngrTopic: Molecular and Cellular Engineering. This course is restricted to Bioengineering graduate students only.						
46521	lecture-discussion	RB	09:00 AM - 10:50 AM	TR	room 336 Mechanical Engineering Bldg	Bhargava, R
46521: 4 hoursAdvanced BioinstrumentationTopic: Advanced Instrumentation. This course is restricted to Bioengineering graduate students only.						

599 Thesis Research Credit: 0 to 16 hours.

Bioengineering graduate thesis research. May be repeated. Approved for S/U grading only.

CRN	Type	Section	Time	Days	Location	Instructor
40854	independent study		ARRANGED			
40854: Instructor Approval Required						