

College of Engineering and Computer Science

Program Changes

Fall 2003

**College of Engineering and Computer Science
Program Changes
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College of Engineering and Computer Science

Bachelor of Science in Biomedical Engineering

Curriculum A: Traditional BME Program

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements*	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190**	
		*Courses taken to satisfy GE requirements may not be counted toward the major	
		**For incoming freshmen only. Other students should consult a department advisor.	
II. Engineering Requirements	96	II. Engineering Requirements	90
Core Engineering Requirements		Core Engineering Requirements	
CEG 220	4	CEG 220	4
EE 301/302, 321	9	EE 301/302, 321	9
EGR 190, 191	6		
ISE 301, 307	8	ISE 301, 307	8
ME 212, 213, 315	12	ME 212, 213, 315	12
Major Courses		Major Courses	
BME 195, 419, 420, 422, 428, 439, 440, 460	28	BME 195, 419, 420, 422, 428, 439, 440, 460	28
BME 461, 462, 464, 470, 471, 491, 492, 402, 493, 403	29	BME 461, 462, 464, 470, 471, 491, 492, 402, 493, 403	29
III. Related Course Requirements	38	III. Related Course Requirements	38
BIO 112, 278, 279	13	BIO 112, 278, 279	13
CHM 121, 122	10	CHM 121, 122	10
MTH 231, 232, 233	15	MTH 231, 232, 233	15
Total	202	Total	194

College of Engineering and Computer Science			
Bachelor of Science in Biomedical Engineering			
Curriculum B: BME Premedical Program			
Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements*	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190**	
		*Courses taken to satisfy GE requirements may not be counted toward the major	
		**For incoming freshmen only. Other students should consult a department advisor.	
Additional courses for pre-med requirements	23	Additional courses for pre-med requirements	23
CHM 123, 211 & 215, 212 & 216, 213 & 217		CHM 123, 211 & 215, 212 & 216, 213 & 217	
II. Engineering Requirements	78	II. Engineering Requirements	78
Core Engineering Requirements		Core Engineering Requirements	
CEG 220	4	CEG 220	4
EE 301/302, 321	9	EE 301/302, 321	9
ISE 301	4	ISE 301	4
ME 212, 213, 315	12	ME 212, 213, 315	12
Major Courses		Major Courses	
BME 195, 419, 420, 422, 428, 439, 440, 460	28	BME 195, 419, 420, 422, 428, 439, 440, 460	28
BME 461, 462, 464, 491, 492, 402, 493, 403	21	BME 461, 462, 464, 491, 492, 402, 493, 403	21
III. Related Course Requirements	38	III. Related Course Requirements	38
BIO 112, 278, 279	13	BIO 112, 278, 279	13
CHM 121, 122	10	CHM 121, 122	10
MTH 231, 232, 233	15	MTH 231, 232, 233	15
	207	Total	205
* Students may substitute BME 470/471 for BME 422/439		* Students may substitute BME 470/471 for BME 422/439	

College of Engineering and Computer Science
Bachelor of Science in Industrial and Systems Engineering

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements*	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190**	
		*Courses taken to satisfy GE requirements may not be counted toward the major	
		**For incoming freshmen only. Other students should consult a department advisor.	
II. Engineering Requirements	94	II. Engineering Requirements	88
Core Engineering Requirements		Core Engineering Requirements	
BME 419, 440	7	BME 419, 440	7
CEG 220	4	CEG 220	4
EE 301/302, 321	9	EE 301/302, 321	9
EGR 190, 191	6		
ME 212, 213, 220, 315	15	ME 212, 213, 220, 315	15
Major Courses		Major Courses	
ISE 195, 301, 302, 306, 307, 451, 465, 470, 471	34	ISE 195, 301, 302, 306, 307, 451, 465, 470, 471	34
ISE 472, 473, 474, 481, 482, 483	19	ISE 472, 473, 474, 481, 482, 483	19
III. Related Course Requirements	26	III. Related Course Requirements	26
CHM 121	5	CHM 121	5
MS 306	3	MS 306	3
MTH 231, 232, 233, 253	18	MTH 231, 232, 233, 253	18
IV. Technical Communications Requirement	3	IV. Technical Communications Requirement	3
EGR 335	3	EGR 335	3
V. Elective/Concentration Requirement	15-20	V. Elective/Concentration Requirement	11-12
ISE Honors Thesis Track:	17-20	ISE Honors Thesis Track	11-12
ISE 499-9, ISE 499-10, and 3 technical electives		ISE 499-9, ISE 499-10, & 1 elective approved by student's advisor	
Human Computer Interaction Track:	18-19	Human Computer Interaction Track:	12
PSY 110, ISE 431, 480, BME 428, & 1 tech elec		PSY 110, ISE 431, ISE 480	
	19	*Information & Computer Systems Track:	11-12
CS 241, 242, 400, 405, and MTH 257		Select three from the following:	
		CS 241, 242, 400, 405, and MTH 257	
Operations Management Track/Minor:	12-13	**Operations Management Track:	12
MS 331, 435, MS 438, and 1 technical elective		MS 320, and 2 electives approved by student's advisor	
		***Materials Science & Engineering Track:	
		ME 370, ME 371, and ME 472	
Total (minimum)	206	Total (minimum)	195
		*Minor in Computer Science for Engineers and Scientist available. See CS Dept for requirements and details.	
		**Minor in Operations Management available. See College of Business for requirements and details	
		***Minor in Materials Science and Engineering available. See ME Dept for additional requirements and details	

College of Engineering and Computer Science			
Bachelor of Science in Computer Engineering			
Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements [^]	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190 ^{^^}	
		[^] Courses taken to satisfy GE requirements may not be counted toward the major	
		^{^^} For incoming freshmen only. Other students should consult a department advisor.	
II. Departmental Requirements	59	II. Departmental Requirements	61
CS 240, 241, 242, 400, 415	19	CS 240, 241, 242, 400, 415	19
CEG 260, 320, 360, 402, 433, 434, 453, 460	32	CEG 260, 320, 333, 360, 402, 433, 434, 453, 460	34
CEG 498/499 Design Experience/Clinic I, II	8	CEG 498/499 Design Experience/Clinic I, II	8
III. Engineering Requirements	29 or 35	III. Engineering Requirements	29
ME 212, 213	8	ME 212, 213	8
EE 301/302, 303/304, 321, 322, 331, 332	21	EE 301/302, 303/304, 321, 322, 331, 332	21
EGR 190/191 (Incoming Freshmen Only)	6		
IV. Computer Science/Engineering Electives	10 or 16	IV. Computer Science/Engineering Electives	16
Incoming Freshmen	10	Approved Electives	16
All Others	16		
(Electives must be chosen with the consent of an advisor to provide a coherent concentration and design experience)		(Electives must be chosen with the consent of an advisor to provide a coherent concentration and design experience)	
V. Mathematics/Statistics Requirements	20	V. Mathematics/Statistics Requirements	20
MTH 231, 233, 253, 257	16	MTH 231, 233, 253, 257	16
ISE 301	4	ISE 301	4
VI. Technical Communications	3	VI. Technical Communications	3
EGR 335		EGR 335	3
Total	195	Total	195

College of Engineering and Computer Science

Bachelor of Science in Computer Science (Bioinformatics Option)

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	64	I. General Education Requirements [^]	62
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
BIO 112, 114, 115	12	Area Three	8
		Area Four	12
		Area Five	12
		BIO 111, 112, 115	
		Area Six	4
		College Component: EGR 190 ^{^^}	
		[^] Courses taken to satisfy GE requirements may not be counted toward the major	
		^{^^} For incoming freshmen only. Other students should consult a department advisor.	
II. Departmental Requirements	55	II. Departmental Requirements	57
CS 240, 241, 242, 271, 400, 415	23	CS 240, 241, 242, 271, 400, 415	23
CS 405, 409, 471, 480	16	CS 405, 409, 471, 480	16
CEG 255, 260, 320, 433	16	CEG 255, 260, 320, 333, 433	18
			2
III. Engineering Requirements	0	III. Engineering Requirements	0
IV. Computer Science/Engineering Electives	8	IV. Computer Science/Engineering Electives	8
Bioinformatics Electives	8	Bioinformatics Electives	8
(Electives must be chosen with the consent of an advisor to provide a coherent major)		(Electives must be chosen with the consent of an advisor to provide a coherent major)	
V. Mathematics/Statistics/Science Requirements	15	V. Mathematics/Statistics/Science Requirements	15
MTH 231, 253, 257	11	MTH 231, 253, 257	11
ISE 301	4	ISE 301	4
VI. Chemistry Courses	33	VI. Chemistry Courses	33
CHM 121, 122, 123	15	CHM 121, 122, 123	15
CHM 211, 212, 213, 215, 216, 217	18	CHM 211, 212, 213, 215, 216, 217	18
	17	VII. Biology Courses	17
BIO 210, 211, 212	12	BIO 210, 211, 212	12
BIO 410, 492	5	BIO 410, 492	5
VIII. Technical Communications	3	VI. Technical Communications	3
EGR 335		EGR 335	3
Total	195	Total	195

College of Engineering and Computer Science

Bachelor of Science in Computer Science (Business Option)

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements [^]	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
EC 201 for EC 200		EC 204 for EC 200	
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190 ^{^^}	
		^Courses taken to satisfy GE requirements may not be counted toward the major	
		^{^^} For incoming freshmen only. Other students should consult a department advisor.	
II. Departmental Requirements	59	II. Departmental Requirements	61
CS 240, 241, 242, 400, 415	19	CS 240, 241, 242, 400, 415	19
CS 405, 466, 480	12	CS 405, 466, 480	12
CEG 255, 260, 320, 360, 433, 434, 460	28	CEG 255, 260, 320, 333, 360, 433, 434, 460	30
III. Engineering Requirements	0 or 6	III. Engineering Requirements	0
EGR 190/191 (Incoming Freshmen Only)	6		
IV. Computer Science/Engineering Electives	14 or 20	IV. Computer Science/Engineering Electives	20
Incoming Freshmen	14	Approved Electives	20
All Others	20		
(Electives must be chosen with the consent of an advisor to provide a coherent major)		(Electives must be chosen with the consent of an advisor to provide a coherent major)	
V. Mathematics/Statistics/Science Requirements	19	V. Mathematics/Statistics/Science Requirements	19
MTH 231, 253, 257	11	MTH 231, 253, 257	11
ISE 301	4	ISE 301	4
CHM 121, or BIO 112, or a physics course with PHY 244 as a prerequisite	4	CHM 121, or BIO 111, or a physics course with PHY 244 as a prerequisite	4
VI. Technical Communications	3	VI. Technical Communications	3
EGR 335	3	EGR 335	3
VII. Elective/Concentration Requirements	24	VII. Elective/Concentration Requirements	24
EC 202, 203	6	EC 205	4
ACC 201, 202	6	ACC 204, 205	8
MGT 302	3		
MKT 301	3		
FIN 301	3		
Choose one from MS 203, CS 300, LAW 350, FIN 302, MKT 302, or ACC 203	3	Choose three from CS 214, LAW 300, FIN 310, MKT 300, MGT 304, MS 204, or MS 205	12
Total	193	Total	193

College of Engineering and Computer Science			
Bachelor of Science in Computer Science (General Option)			
Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements [^]	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190 ^{^^}	
		[^] Courses taken to satisfy GE requirements may not be counted toward the major	
		^{^^} For incoming freshmen only. Other students should consult a department advisor.	
II. Departmental Requirements	59	II. Departmental Requirements	61
CS 240, 241, 242, 400, 415	19	CS 240, 241, 242, 400, 415	19
CS 405, 466, 480	12	CS 405, 466, 480	12
CEG 255, 260, 320, 360, 433, 434, 460	28	CEG 255, 260, 320, 333, 360, 433, 434, 460	30
III. Engineering Requirements	0 or 6	III. Engineering Requirements	0
EGR 190/191 (Incoming Freshmen Only)	6		
IV. Computer Science/Engineering Electives	14 or 20	IV. Computer Science/Engineering Electives	20
Incoming Freshmen	14	Approved Electives	20
All Others	20		
(Electives must be chosen with the consent of an advisor to provide a coherent major)		(Electives must be chosen with the consent of an advisor to provide a coherent major)	
V. Mathematics/Statistics/Science Requirements	19	V. Mathematics/Statistics/Science Requirements	19
MTH 231, 253, 257	11	MTH 231, 253, 257	11
ISE 301	4	ISE 301	4
CHM 121, or BIO 112, or a physics course with PHY 244 as a prerequisite	4	CHM 121, or BIO 111, or a physics course with PHY 244 as a prerequisite	4
VI. Technical Communications	3	VI. Technical Communications	3
EGR 335		EGR 335	3
VII. Elective/Concentration Requirements	24	VII. Elective/Concentration Requirements	24
Language Requirement	8	Language Requirement	8
(English 200 level or above, not including ENG 347 and 405) or foreign language*		(English 200 level or above, not including ENG 347 and 405) or foreign language*	
Elective Concentration	16	Elective Concentration	16
Sixteen hours from one liberal arts, sciences, mathematics, or engineering department		Sixteen hours from one liberal arts, sciences, mathematics, or engineering department	
*Include comparative literature, linguistics, modern language, humanities, sign language, and classics		*Include comparative literature, linguistics, modern language, humanities, sign language, and classics	
Total	193	Total	193

College of Engineering and Computer Science			
Bachelor of Science in Computer Science (Science Option)			
Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements [^]	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190 ^{^^}	
		^Courses taken to satisfy GE requirements may not be counted toward the major	
		^^For incoming freshmen only. Other students should consult a department advisor.	
II. Departmental Requirements	59	II. Departmental Requirements	61
CS 240, 241, 242, 400, 415	19	CS 240, 241, 242, 400, 415	19
CS 405, 466, 480	12	CS 405, 466, 480	12
CEG 255, 260, 320, 360, 433, 434, 460	28	CEG 255, 260, 320, 333, 360, 433, 434, 460	30
III. Engineering Requirements	0 or 6	III. Engineering Requirements	0
EGR 190/191 (Incoming Freshmen Only)	6		
IV. Computer Science/Engineering Electives	14 or 20	IV. Computer Science/Engineering Electives	20
Incoming Freshmen	14	Approved Electives	20
All Others	20		
(Electives must be chosen with the consent of an advisor to provide a coherent major)		(Electives must be chosen with the consent of an advisor to provide a coherent major)	
V. Mathematics/Statistics/Science Requirements	19	V. Mathematics/Statistics/Science Requirements	19
MTH 231, 253, 257	11	MTH 231, 253, 257	11
ISE 301	4	ISE 301	4
CHM 121, or BIO 112, or a physics course with PHY 244 as a prerequisite	4	CHM 121, or BIO 111, or a physics course with PHY 244 as a prerequisite	4
VI. Technical Communications	3	VI. Technical Communications	3
EGR 335		EGR 335	3
VII. Elective/Concentration Requirements	24	VII. Elective/Concentration Requirements	24
MTH/EE courses chosen from list*	8 to 12	MTH/EE courses chosen from list*	8 to 12
Courses from one mathematics, science, or engineering department	12 to 16	Courses from one mathematics, science, or engineering department	12 to 16
* Choose from EE 301/302, 303/304, 321, 322, 331, 345 and MTH 232, 233, 333, 407, 431, 432, 451, 452, 457, 458		* Choose from EE 301/302, 303/304, 321, 322, 331, 345 and MTH 232, 233, 333, 407, 431, 432, 451, 452, 457, 458	
Total	193	Total	193

College of Engineering and Computer Science

Bachelor of Science in Electrical Engineering

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements [^]	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190 ^{^^}	
		[^] Courses taken to satisfy GE requirements may not be counted toward the major	
		^{^^} For incoming freshmen only. Other students should consult a department advisor.	
II. Engineering Requirements	70	II. Engineering Requirements	64
EGR 190, 191	6		
ME 212, 213; CEG 221*, 411	16	ME 212, 213; CEG 221*, 411	16
EE 140, 260, 301/302, 303/304, 321, 322	24	EE 140, 260, 301/302, 303/304, 321, 322	24
EE 331/332, 345, 413/414, 421, 425, 431/432	24	EE 325, 331/332, 345, 413/414, 421, 431/432	24
III. Related Course Requirements	33	III. Related Course Requirements	33
CEG 220	4	CEG 220	4
MTH 231, 232, 233, 253	18	MTH 231, 232, 233, 253	18
STT 363 or ISE 301, CHM 121, EGR 335	11	STT 363 or ISE 301, CHM 121, EGR 335	11
IV. Technical Electives**	3	IV. Technical Electives**	11
V. Engineering Electives**	24	V. Engineering Electives**	24
Total	198	Total	198
* ME 315 may be substituted for CEG 221		* ME 315 may be substituted for CEG 221	
** Catalog details not included on this form		** Catalog details not included on this form	

College of Engineering and Computer Science

Bachelor of Science in Engineering Physics

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements*	66
ENG 101, 102	8	Required Substitutions	
Social Science and Humanities	34	Area One	18
Required Substitutions		MTH 229, 230	
MTH 229, 230	10	Area Two	8
PHY 240/200, 242/202, 244/204	16	Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190**	
		*Courses taken to satisfy GE requirements may not be counted toward the major	
		**For incoming freshmen only. Other students should consult a department advisor.	
II. Engineering Requirements	50-51	II. Engineering Requirements	44-45
EGR 190, 191	6		
PHY 420	3-4	PHY 420	3-4
(ME 315 may be substituted for PHY 420)		(ME 315 may be substituted for PHY 420)	
EE 301/302, 303/304, 321, 322, 331/332	21	EE 301/302, 303/304, 321, 322, 331/332	21
EE 413/414, 415/416, 421	12	EE 413/414, 415/416, 421	12
EP 494	8	EP 494	8
III. Physics Requirements	27	III. Physics Requirements	27
PHY 260, 316, 371, 372, 450, 451, 452, 461		PHY 260, 316, 371, 372, 450, 451, 452, 461	
IV. Related Course Requirements	32	III. Related Course Requirements	32
CHM 121, 122	10	CHM 121, 122	10
CEG 220 or CS 240	4	CEG 220 or CS 240	4
MTH 231, 232, 233, 253	18	MTH 231, 232, 233, 253	18
V. Technical Electives**	20	V. Technical Electives***	28
Total (minimum)	197	Total (minimum)	197
** Catalog details not included on this form		*** Catalog details not included on this form	

College of Engineering and Computer Science

Bachelor of Science in Materials Science and Engineering

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements*	66
Required Substitutions		Required Substitutions	
MTH 229, 230		Area One	18
PHY 240/200, 242/202, 244/204		MTH 229, 230	
		Area Two	8
		Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190**	
		*Courses taken to satisfy GE requirements may not be counted toward the major	
		**For incoming freshmen only. Other students should consult a department advisor.	
II. Engineering Requirements	98	II. Engineering Requirements	92
EGR 153, 190, 191; ME 199	13	EGR 153, ME 199	7
ME 202, 212, 213, 220	15	ME 202, 212, 213, 220	15
ME 313, 315, 370, 371, 375, 376, 385, 386	27	ME 313, 315, 370, 371, 375,376, 385, 386	27
ME 470, 472, 477, 479, 482, 483, 492, 493	30	ME 470, 472, 477, 479, 480, 483, 492, 493	30
ME 485, 486, 487, 488, 489 (select any two)	8	ME 485, 486, 487, 488, 489 (select any two)	8
EE 301, 302	5	EE 301, 302	5
III. Related Course Requirements	23	III. Related Course Requirements	23
CHM 121	5	CHM 121	5
MTH 231, 232, 233, 253	18	MTH 231, 232, 233, 253	18
IV. Technical Electives*	14	IV. Technical Electives***	14
These courses to be selected from an approved list		These courses to be selected from an approved list	
Total	203	Total	195
*Technical Electives are listed on the materials science and engineering program guide available in the department office.		***Technical Electives are listed on the materials science and engineering program guide available in the department office.	

College of Engineering and Computer Science

Bachelor of Science in Mechanical Engineering

Current Three Credit Hour Base		New Four Credit Hour Base	
I. General Education Requirements	68	I. General Education Requirements*	66
Required Substitutions		Required Substitutions	
MTH 229, 230		Area One	18
PHY 240/200, 242/202, 244/204		MTH 229, 230	
		Area Two	8
		Area Three	8
		Area Four	12
		Area Five	16
		PHY 240/200, 242/202, 244/204	
		Area Six	4
		College Component: EGR 190**	
		*Courses taken to satisfy GE requirements may not be counted toward the major	
		**For incoming freshmen only. Other students should consult a department advisor.	
II. Engineering Requirements	97	II. Engineering Requirements	91
EGR 153, 190, 191; ME 199	13	EGR 153, ME 199	7
ME 202, 212, 213, 220	15	ME 202, 212, 213, 220	15
ME 313, 315, 316, 317, 318, 370, 371	28	ME 313, 315, 316, 317, 318, 370, 371	28
ME 408, 414, 415, 460, 490, 491	23	ME 408, 414, 415, 460, 490, 491	23
EE 301/302, 321, 401/402, 413/414	18	EE 301/302, 321, 401/402, 413/414	18
III. Related Course Requirements	30	III. Related Course Requirements	30
CHM 121	5	CHM 121	5
MTH 231, 232, 233, 253	18	MTH 231, 232, 233, 253	18
STT 363	3	STT 363	3
CS 316	4	CS 316	4
IV. Technical Electives*	10	IV. Technical Electives***	10
These courses to be selected from an approved list		These courses to be selected from an approved list	
Total	205	Total	197
*Technical Electives are listed on the mechanical engineering program guide available in the department office.		***Technical Electives are listed on the mechanical engineering program guide available in the department office.	

Fall 2003 CECS General Education Procedure

Area VI – College Component Course

EGR 190 – 4.0 will be the college component course. All eligible students are required to register for and pass this course. “Eligible” is defined as having earned a total of not more than 45 quarter credit hours in residence at WSU or by transfer credit from another university.

Students who are not eligible to enroll in EGR 190 may substitute one of the following courses for the CECS college component course subject to department advisor approval:

EH 205 – 4.0 Environmental Science & Society: A Cross-Cultural Perspective

EC 290 – 4.0 Economic , Business, and Social Issues

PSY 110 – 4.0 Psychology: The Science of Behavior II

URS 200 – 4.0 Growth and Change in Urban Societies

(other department approved college component courses to be added)

Area VI Transfer Policy: Students who wish to transfer from another college at WSU to the CECS will take and pass EGR 190 if eligible to enroll in the course unless they have already completed a college component course.