



Information for COE New Student Orientation Advising

2016 New Student Orientation Dates:

Monday, July 11 – Tuesday, July 12 Tuesday, July 12– Wednesday, July 13 Wednesday, July 13 – Thursday, July 14 Thursday, July 14 – Friday, July 15 Monday, July 18 – Tuesday, July 19

2016 New Student Orientation Schedule -- Highlights:

Day #1 (July 11, 12, 13, 14 & 18)

2:30 – 3:15 pm College Welcome Stewart Theatre 3:00 – 4:30 pm Group Advising TSU Coastal Ballroom

Day #2 (July 12, 13, 14, 15 & 19)

9:30 am ~ 1pm Advising & MyPack Registration 201, 226, 255 Daniels Hall

Academic Advising Sessions:

Goal: Before leaving, students should be registered for 10 - 12 hours. They can add classes after orientation.

- Academic Advising sessions are from 9:30am~1pm on Day #2
- Orientation Counselors (OC's) will bring students to your computer room.
- You will advise ~15 students in each of 2 advising time periods.
- Changes to student's schedules should be <u>minimal</u> beyond AP's, H/SS & PE choices.
- It is the <u>OC's RESPONSIBILITY</u> to get students where they need to be not yours ©
- Registration is simultaneous with advising (9:30am 1:00pm in Daniels Hall).
- Each student should meet one-on-one with an advisor before leaving.
- Please initial the Schedule Approval Form of EFY NSO Booklet

Note: Sometimes students have questions <u>after</u> attending New Student Orientation. In this case please let them know to call their Academic Advisor, Departmental Coordinator of Advising, or Academic Affairs directly (please see COA contact list).

COE, New Student Orientation 2016 Advisor Handbook

Advanced Placement Policy for AP Exams

No.	<u>Test Title</u>	<u>Score</u>	Credit
7	US History	3,4	3 hours for HI 252
		5	6 hours for HI 251 & HI 252
13	History of Art	3,4,5	3 hours elective credit in humanities or fine arts, depending upon curriculum
14	Art: Studio Art - Drawing Portfolio	3,4,5	3 hours elective credit, pending portfolio review by department of Art and Design in College of Design
15	Art: Studio Art - 2-D Design	3,4,5	3 hours elective credit, pending portfolio review by department of Art and Design in College of Design
16	Art: Studio Art - 3-D Design	3,4,5	3 hours elective credit, pending portfolio review by department of Art and Design in College of Design
20	Biology	4,5	8 hours for BIO 181/181L and BIO 183/183L
		3	4 hours for CH 101 and CH 102
25	Chemistry	4,5	8 hours for CH 101, CH 102, CH 201, CH 202
28	Chinese		No credit awarded
31	Computer Science A	4,5	3 hours for CSC 116
33	Computer Science AB	3,4,5	3 hours for CSC 116
34	Economics: Microeconomics	3,4,5	3 hours for EC 201
35	Economics: Macroeconomics	3,4,5	3 hours for EC 202
36	English Language & Composition	4	Eligible to submit portfolio to apply for ENG 101 credit. See the First-Year Writing Program website for guidelines for submitting portfolios.
30	English Language & Composition	5	4 hours credit for ENG 101
37	English Literature & Composition	5	3 hours credit for ENG 208
40	Environmental Science	3,4,5	4 hours credit for MEA 100
		3,4	3 hours credit for HI 205
43	European History	5	6 hours credit for HI 208 and HI 209
48	French Language	4	Placement into FLF 202. Upon completion of FLF 202 with a grade of C- or better on the first attempt, students receive 3 hours credit for FLF 201.
		5	6 hours for FLF 201 and FLF 202 upon completion of a 300-level course with a grade of C- or better
51	French Literature	4	Placement into FLF 202. Upon completion of FLF 202 with a grade of C- or better on the first attempt, students receive 3 hours credit for FLF 201.
		5	6 hours for FLF 201 & 202 upon completion of a 300-level course with a C- or better
53	Human Geography	3,4,5	3 hours for GEO 200
55	German Language	4	Placement into FLG 202. Upon completion of FLG 202 with a grade of C- or better on the first attempt, students receive 3 hours credit for FLG 201.
00	Ostilian Language	5	6 hours for FLG 201 and FLG 202 upon completion of a 300-level course with a grade of C- or better
57	Government & Politics: US	3,4,5	3 hours for PS 201
58	Government & Politics: Comparative	3,4,5	3 hours for PS 241
60	Latin: Vergil	4	Placement into LAT 202. Upon completion of LAT 202 with a grade of C- or better on first attempt, students receive 3 hours credit for LAT 201.
		5	6 hours credit for LAT 201 and LAT 202 upon completion of a 300-level course with a grade of C- or better

http://admissions.ncsu.edu/apply/credit-opportunities/advanced-placement-ap/ Retrieved: June 12, 2015

Advanced Placement Policy for AP Exams

No.	Test Title	Score	Credit
61	Latin: Literature	4	Placement into LAT 202. Upon completion of LAT 202 with a grade of C- or better on first attempt, students receive 3 hours credit for LAT 201.
		5	6 hours credit for LAT 201 and LAT 202 upon completion of a 300-level course with a grade of C- or better
66	Math: Calculus AB	3	Placement in MA 241. Upon completion of this course with a C- or better on the first attempt, 4 hours credit will be awarded for MA 141.
		4,5	4 hours credit for MA 141.
		2	Placement in MA 241. Upon completion of this course with a C- or better on the first attempt, 4 hours credit will be awarded for MA 141.
			4 hours credit for MA 141; then OPTION 1: Placement into MA 241
68	Math: Calculus BC	3	OPTION 2: Placement into MA 242. Upon completion of MA 242 with a grade of C- or better, students will receive 4 hours credit for MA 241.
		4,5	8 hours for MA 141 and 241.
76	Music Theory: Aural Subscore	4,5	1 hour for MUS 104
77	Music Theory: Non-Aural Subscore	4,5	3 hours for MUS 103
78	Physics B	4,5	8 hours for PY 211 and PY 212
80	Physics C: Mechanics	4,5	4 hours for PY 205 + 206
82	Physics C: Electricity & Magnetism	4,5	4 hours for PY 208 + 209
83	Physics 1	4,5	4 hours for PY 211
84	Physics 2	4,5	4 hours for PY 212
85	Psychology	3,4,5	3 hours for PSY 200
87	Spanish Language	4	Placement into FLS 202. Upon completion of FLS 202 with a grade of C- or better on the first attempt, students will receive 3 hours credit for FLS 201.
		5	6 hours for FLS 201 and FLS 202 upon completion of a 300-level course with a grade of C- or better
89	Spanish Literature	4	Placement into FLS 202. Upon completion of FLS 202 with a grade of C- or better on the first attempt, students will receive 3 hours credit for FLS 201.
	opamen Englaturo	5	6 hours for FLS 201 and FLS 202 upon completion of a 300-level course with a grade of C- or better
90	Statistics	3,4,5	3 hours for ST 301 upon completion of ST 302 with a grade of Cor better; or 3 hours for ST 311 for non-statistics majors
93	World History	3,4	3 hours for HI 233
	-	5	6 hours for HI 205 and HI 233

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International Baccalaureate (IB) Policy

NC State does not currently award placement or credit for standard-level exams.

GROUP 1 EXAMS (Best Language)

Test Title	Level	<u>Score</u>	Credit						
	Higher (Without IB diploma)	5 - 7	3 hours credit for ENG 220						
Fnglish Δ1/Δ2	Higher (With IB diploma)	3 - 4	Eligible to submit writing portfolio to apply for credit for ENG 101; contact the Freshman Writing Program with questions.						
English A1/A2	Higher (<u>With</u> IB diploma)	5 - 7	3 hours credit for ENG 220; 4 hours credit for ENG 101 may also be awarded after review by Freshman Writing Program. Students with IB diplomas must submit documentation to the Freshman Writing Office, Tompkins 246. Contact the Freshman Writing Program for details.						
GROUP 2 EXAMS (Second Modern Language))							
Foreign Languages		6	Placement into FL* 202. Upon completion of FL* 202 with a grade of C- or better on the first attempt, 3 hours credit will be given for FL* 201.						
Credit will be awarded in French (FLF), German (FLG) and/or Spanish (FLS)	Higher	7	6 credit hours for FL* 201 and FL* 202 upon completion of an FL* 300-level course with a grade of C- or better.						
GROUP 3 EXAMS (Individuals and Societies)								
Business & Management	Higher	5,6,7	3 hours credit, BUS *** elective						
Economics	Higher	6,7	EC 201 and EC 202						
Geography			Under Review						
History, World	Higher	5,6,7	3 hours credit for HI 233						
History, American	Higher	5,6,7	3 credit hours for HI 252						
History, European	Higher	5,6,7	3 hours credit for HI 233						
History of the Islamic World	Higher	5,6,7	3 hours credit for HI 2**						
Philosophy	Higher	5,6,7	3 hours credit for PHI 205						
Psychology	Higher	5,6,7	3 credit hours for PSY 200						
Social Anthropology	Higher	5,6,7	3 credit hours for ANT 252						

http://admissions.ncsu.edu/apply/credit-opportunities/international-baccalaureate-ib/ Retrieved: June 12, 2015

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GROUP 4 EXAMS (Experimental Sciences)

Biology	Higher	5,6,7	Evaluated on an individual basis. Contact biology department for review.
Chemistry	Higher	5	4 credit hours for CH 101 and CH 102
	ge.	6,7	8 credit hours for CH 101, CH 102, CH 201, & CH 202
Design Technology	Higher	1 - 7	Contact College of Design
Physics	Higher	5,6,7	Option 1: Placement into PY 208; upon completion of that course with a grade of C or better, four credit hours for PY 205.
GROUP 5 EXAM	S (Mathematics)		Option 2: Credit for PY 211 and PY 212
Mathematics	Higher	5	Placement into MA 241; upon completion of that course with a grade of C or better, 4 credit hours will be awarded for MA 141.
		6,7	4 credit hours for MA 141
GROUP 6 EXAM	S (The Arts and Electives))	
Art/Design	Higher	1 - 7	Contact College of Design
Classical Langu	ages	•	
Crack	History	6	Placement into GRK 202. Upon completion of this course with a grade of C or better on the first attempt, 3 hours credit will be awarded for GRK 201.
Greek	Higher	7	6 hours credit for GRK 201 and GRK 202 upon completion of a GRK 300-level course with a grade of C or better.
Latin	Higher	6	Placement into LAT 202. Upon completion of this course with a grade of C or better on the first attempt, 3 hours credit will be awarded for LAT 201.
Lauli	Higher	7	6 hours credit for LAT 201 and LAT 202 upon completion of a LAT 300-level course with a grade of C or better.
Computer Scien	as Higher	E 6 7	3 credit hours for CSC 200
Computer Scien Theatre Arts		5,6,7	3 credit hours for CSC 200
THEALTE AITS	Higher	5,6,7	3 CIECUL HOURS FOI CONT TOS

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Articulation Agreement North Carolina School of Science Math (NCSSM)

Courses are in the NC State Transfer Equivalency data base and appear as transfer courses on the student's degree audit.

ESS equivalency is grade earned at NCSSM		
NCSSM Course(s)	Condition(s)	NCSU Course(s)
Chemistry		
CH 401 + CH 402	Grade of B or better in each course	CH 101 + 102; CH 201 + 202
CH 405 + CH 406	Grade of B or better in each course	CH 101 + 102; CH 201 + 202
CH 424 + CH 426	Grade of B or better in each course	CH 101 + 102; CH 201 + 202
Mathematics		
MA 416 + MA 426	Grade of B or better in each course	MA 141 + MA 241
MA 420 + MA 422 + MA 424	Grade of B or better in each course	MA 141 + MA 241
MA 432 + MA 434	Grade of B or better in each course	MA 141 + MA 241
MA 480 + MA 482	Grade of B or better in each course	MA 242
MA 484 + MA 486	Grade of B or better in each course	MA 242
MA 464 + MA 466	Grade of B or better in each course	MA 416
Dhysics		
Physics PH 352 + PH 354	Grade of B or better in each course	DV 244
		PY 211 PY 211
PH 355	Grade of B or better in each course Grade of B or better in each course	PY 211 + PY 212
PH 403		
PH 404 + PH 406 + PH 408	Grade of B or better in each course	PY 205 + 206; PY 208 + 209
PH 418 + PH 420	Grade of B or better in each course	PY 123 + PY 125
PH 424 + PH 426	Grade of B or better in each course	PY 211 + PY 212
Statistics		
MA 404 + MA 406 + MA 408	Grade of B or better in each course	ST 311
MA 440 + MA 442 + MA 444	Grade of B or better in each course	ST 370
Environmental Science		
BI 424 + BI 426	Grade of B or better in each course	MEA 100
BI 430 + BI 432	Grade of B or better in each course	MEA 100
Piala m.		
Biology	Orada af D an hattan in anah asuma	DIO 400 + DIO 404
BI 434 + BI 436 + BI 438	Grade of B or better in each course	BIO 183 + BIO 181
Foreign Language - French		
FR 307 + FR 354 + FR 356 + FR 358	Grade of B or better in each course	FLF 202
FR 404 + FR 406 + FR 408	Grade of B or better in each course	FLF 308
Foreign Language - Latin		
LA 307 +LA 404 + LA 406 + LA 408	Grade of B or better in each course	LAT 202
LA 410 + LA 412 + LA 414	Grade of B or better in each course	FL 295
Foreign Language - Spanish		
SP 307 + SP 352	Grade of B or better in each course	FLS 202
SP 354 + SP 356 + SP 358	Grade of B or better in each course	FLS 331
SP 454 + SP 456 + SP 458	Grade of B or better in each course	FLS 340
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https://www.acs.ncsu.edu/scripts/ugadmiss/trnsfcrs.pl/3?instit=000977237&state=NC&country=SelectCountry

Retrieved: June 12, 2015

A- and AS-level Equivalencies

Subject	Level	Grade	Course Credit Earned
Chemistry	A-level	C or higher	CH 101 + 102 and CH 201 + 202
Classics	A-level	C or higher	CLA 320 and CLA *** for 3 credits
Classics	AS-level	n/a	no credit
English Language & Lit	A-level	C or higher	6 hours ENG 2**
English Language	A-level	C or higher	3 credits – ENG 2**
English Literature	A-level	C or higher	3 credits – ENG 2**
English Language & Lit	AS-level	n/a	no credit
English Language	AS-level	n/a	no credit
English Literature	AS-level	n/a	no credit
Environmental Management	A-level	C or higher	3 credits – ES 100
Foreign Language French	A-level	C or higher	6 credits – FLF 201, FLF 202
Foreign Language German	A-level	C or higher	6 credits – FLG 201, FLG 202
Foreign Language Spanish	A-level	C or higher	6 credits – FLS 201, FLS 202
Foreign Language French	AS-level	n/a	no credit
Foreign Language German	AS-level	n/a	no credit
Foreign Language Spanish	AS-level	n/a	no credit
History	A-level	C or higher	6 credits at 200-level
History	AS-level	C or higher	3 credits at 200-level
			nation topics would match to our courses as:
	1) Modern	European Histo	ory, 1789-1939; HI 210
	2) Souther	ast Asia: from C	olonies to Nations, 1870-1980; HI 264
	3) Internat	ional History, 19	945-91; HI 2**
			Africa, 1855-1914; HI 276
			, c. 1840-1968; HI 252
	6) Caribbe	an History, 179	4-1900; HI 2**
Mathematics	A-level	C or higher	MA 111 + MA 141
Further Mathematics	A-level	C or higher	MA 241 + MA 305
Physics	A-level	C or higher	PY 211 + PY 212
Psychology	A-level	C or higher	PSY 200, PSY 230, PSY ***
Psychology	AS-level	C or higher	PSY 200, PSY 230
Sociology	A-level	C or higher	SOC 202
Sociology	AS-level	C or higher	SOC 2**

http://admissions.ncsu.edu/apply/credit-opportunities/a-and-as-level-equivalencies/ Retrieved: June 12, 2015

College Level Examination Program (CLEP) Credit Policy

History and Social Sciences	Score/Credit
American Government	50/ PS 201
Principles of Macroeconomics	50/ EC 202
Principles of Microeconomics	50/ EC 201
Intro. Sociology	50/ SOC 202
US History I	50/ HI 251
US History II	50/ HI 252
Western Civilization I	50/ HI 207
Western Civilization II	50/ HI 205

Science and Mathematics	Score/Credit
Calculus	48/ MA 131 or MA 141, depending upon major
College Algebra	50/ MA 107
College Algebra/Trigonometry	50/ MA 111
Precalculus	50/ MA 107
Trigonometry	50/ MA 101
Biology	Evaluated on an individual basis. Contact Biological Sciences (919.515.3341) Department for review.

http://admissions.ncsu.edu/apply/credit-opportunities/college-level-examination-program-clep/Retrieved: June 16, 2015

NORTH CAROLINA COMMUNITY COLLEGE		NC Cmty College	NCSU	NC Cmty College	NCSU
COURSE EQUIVALENCIES Effective Fall 2014 (UPDATED 05/11/15)	Fall 2014	ART 231 Printmaking I ART 232 Printmaking II	Elective Elective	\mathbf{z}	BIO 105
NC Community College	NCSU	240	Elective Elective		BIO 183 BIO 181 PB 200
ACA ACA 122 College Transfer Success	Elective		Elective Elective Elective	⋖	BIO 1** BIO elective BIO elective
ACC 120 Principles of Accounting I	ACC 210	246 246 248 248		BIO 143 Field Biology Minicourse BIO 145 Ecology BIO 146 Regional Natural History BIO 150 Genetics in Human Affairs	PB elective PB 360 Elective GN 301
ACC 121 Principles of Accounting in ANTHROPOLOGY	ACC 200	ART 250 Surface Design: Textiles ART 251 Weaving II ART 252 Weaving II	Elective Elective Elective	BIO 155 Nutrition BIO 163 Basic Anat & Physiology BIO 165 Anatomy & Phys I	NTR 301 BIO 212 BIO 212
ANT 210 General Anthropology ANT 220 Cultural Anthropology	ANT elective ANT 252	260 261	Elective Elective		BIO elective BIO 212
221 C	ANT elective ANT 253	262 F 264	Elective Elective	BIO 169 Anatomy & Phys II BIO 175 General Microbiology	BIO elective MB elective
ANT 240A Archaeology Lab ANT 245 World Prehistory	ANT elective ANT Elective		Elective Elective	BIO 180 Biological Chemistry BIO 224 Local Flora Spring	BCH elective PB 2**
JIANAN		267	Elective Elective	BIO 230 Entomology BIO 242 Natural Resource Conserv.	
ARA 111 Elementary Arabic I	FLA 101	ART 275 Intro to Commercial Art	Elective	243 Marine Biology	MEA 220
ARA 112 Elementary Arabic II	FLA102	282	Elective	BIO 250 Genetics PB elective o BIO 265 Cell Biology	PB elective or BIO elective BIO elective
ARA 181 Atabic Lab I ARA 182 Arabic Lab II	Elective	ART 283 Ceramics I	Elective	271	BIO elective
ARA 211 Intermediate Arabic I	FLA201		Elective	BIO 275 Microbiology BIO 280 Biotechnology	MB 351&352 Elective
	1.4202	ART 286 Ceramics IV ART 288 Studio	Elective Elective	SUNISH	
	i.			BUSINESS BUS 110 Intro to Business	MIE 201
ART 111 Art Appreciation ART 113 Art Methods and Materials	Elective	AMERICAN SIGN LANGUAGE),E		MIE 305
<u>+</u> +	HA 201		* - - - - - - - - - - - - - - - - - - -	BUS 137 Principles of Mgmt BUS 228 Business Statistics	BUS elective ST 311
ART 115 Art History II ART 116 Survey of American Art	HA 203	ASL 181 ASL Lab I	Elective		
117	HA elective		FL 2**	CHEMISTRY	20
ART 118 Art by Women ART 121 Design I	Elective		FL 2**	CHIM 115 CONCEPTS IN CHEMISTRY CHM 115A Concepts in Chemistry Lab	
123	Elective	ASL 281 ASL Lab III ASL 282 ASL Lab IV	Elective	CHM 130 Gen, Org, & Biochemistry	
ART 130 Basic Drawing ART 131 Drawing I	Elective Elective	VII ON OUTS A		CHM 131 Intro to Chemistry	
132	Elective	ASTRONOM ASTRONOMY	PY 123 or124	1	CH 102
ART 135 Figure Drawing I ART 140 Basic Painting	Elective Elective	⋖		CHM 132 Organic/Blochemistry CHM 135 Survey of Chemistry I	CH 220 CH 101&
171	Elective	_	PY 123 PY 125	CHM 136 Survey of Chemistry II	CH 102 CH 2018
213	Elective	_	PY 124		CH 202
ART 214 Portfolio and Resume	Elective	AST 1524 General Astronomy II Lab AST 251 Observational Astronomy		CHM 151 General Chemistry I	CH 101& CH 102
7				CHM 152 General Chemistry II	CH 2018
				CHM 251 Organic Chemistry I CHM 252 Organic Chemistry II	CH 221 & 222 CH 223 & 224 CH 223 & 224

NC Cmty College	DRA 112 Lit of the Theatre DRA 115 Theatre Criticism DRA 120 Voice for Performance DRA 120 Oral Internetation	٠,	. 0,	DRA 140 Stagecraft I DRA 141 Stagecraft II DRA 142 Costuming DRA 145 Stage Make-up DRA 170 Play Production I DRA 171 Play Production II		231 240 260 270 271	ECONOMICS ECO 151 Survey of Economics ECO 251 Prin of Microeconomics ECO 252 Prin of Macroeconomics	EDUCATION EDU 216 Found of EducationElective EDU 221 Children with Exceptnl	ENGINEERING EGR 120 Engr&Desgn Graph EGR 150 Intro to Engineering EGR 210 Intro Elect/Com Engr I ah	EGR 212 Logic System Design I EGR 215 Network Theory I	EGR 216 Logic & Network Lab l EGR 220 Engineering Statics EGR 225 Engineering Dynamics EGR 228 Intro Solid Mechanics	ENGLISH	ENG 111 Expository writing ENG 112 Arg-Based Research ENG 114 Prof Resrch & Report
NCSU	CH 315 BCH elective BCH elective	FLC 101 FLC 102 Elective	Elective FLC 201 FLC 202	SOC elective Elective Elective	SYSTEMS CSC 200 CSC elective	COM elective COM elective COM 112 COM elective	COM 332 COM elective COM elective COM 110 COM elective	CSC 200 CSC elective	CSC 114 Elective CSC 116 Elective	BUS elective	Elective	GC 120	THE 103
NC Cmty College	CHM 263 Analytical Chemistry CHM 271 Biochemical Principles CHM 271A Biochem Principles Lab	(y)	CHI 182 Chinese Lab II CHI 211 Intermed Chinese I CHI 212 Intermed Chinese II	CRIMINAL JUSTICE CJC 111 Intro to Criminal Justice CJC 121 Law Enforcement CJC 141 Corrections	COMPUTER INFORMATION SYSTEMS CIS 110 Intro to Computers CSC 200 CIS 115 Intro Prog & Logic CSC electi	COMMUNICATIONS COM 110 Intro Communications COM 111 Voice and Diction I COM 120 Interpersonal Comm COM 130 Nonverbal Comm	COM 140 Intercultural Comm COM 150 Intro Mass Comm COM 160 Small Group Comm COM 231 Public Speaking COM 251 Debate I	CSC 120 Computing Fund I	CSC 134 C++ Programming CSC 139 Visual BASIC Prog CSC 151 JAVA Program CSC 239 Adv Visual BASIC	CTS 115 Info Sys Bus Concept	DANCE DAN 110 Dance Appreciation	DRAFTING DFT 170 Engineering Graphics	DRAMA DRA 111 Theatre Appreciation

Elective Elective	Elective Elective	Elective FNG 265	ENG 266	ENG 252	Elective	ENG 261	ENG 262	ENG 251	ENG 221	ENG 222	Elective	Elective	Elective	Elective	ENG 2**	ENG 248	Elective	ENG 376
125 (ENG 131 Intro to Literature ENG 132 Introduction to Drama	ENG 134 Introduction to Poetry FNG 231 American Literature I	G 232 ,	ENG 233 Major American Writers	ENG 235 Survey of Film as Lit	ENG 241 British Literature I	ENG 242 British Literature II	ENG 243 Major British Writers	ENG 251 West World Literature I	ENG 252 West World Literature II	ENG 253 Bible as Literature	ENG 261 World Literature I	ENG 262 World Literature II	ENG 271 Contemporary Lit	ENG 272 Southern Literature	ENG 273 African-Amer Lit	ENG 274 Lit by Women	ENG 275 Science Fiction

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Note: Two 3-credit hour NC cmty college ENG courses must be taken (ENG 111 and choice of ENG 112/114) to satisfy NCSU's 4-credit "ENG 101" course, with two remaining credits of ENG 1**.

EC elective EC 201 EC 202

Elective

FLF 102 Elective Elective FL 295 Elective	Elective FLF 201 FLF 308 FLF 308 FL 295 Elective	MEA 101 & MEA 110 MEA 202 & MEA 211 MEA 101 & MEA 101 MEA 110 MEA 100 MEA 300
FRENCH FRE 111 Elementary French IFLF 101 FRE 112 Elementary French II FRE 141 Culture & Civilization FRE 151 Francophone Lit FRE 161 Cultural Immersion FRE 181 French Lab I		GEOL 111 Intro Geology GEL 113 Historical Geology GEL 120 Physical Geology GEL 230 Environmental Geology

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NC Cmty College

ENG 1* * ENG 1* * * ENG 1* * *

NCSU	ENG 215 ENG elect	LAT 101	LAT 102 FI 295	FL 295	Elecitve	LAT 201	LAT 202	LAI 201 I AT 202	Elective	Elective		ovito ol	Elective		Elective MA 1**	ST 311	MA 2**	Elective	Flective			MA 111	ST elective	MA 121	Elective	MA 141	MA 241	MA 242	MA 305	MA 34		300 3110	Flective	MUS 260	MUS 2**	MUS elective	MUS elective	MUS elective	MUS elective MUS 110	MUS 110	MUS 100	MUS 100
NC Cmty College	JOU 216 Writing Mass Media JOU 217 Feature/Edit Writing	5	LAT 112 Elementary Latin II	142	LAT 181 Latin Lab I	211	212	LAT 231 Reading & Composition LAT 232 Imperial Literature	281	LAT 282 Latin Lab 4		MAT 111 Moth Concepted	~		MAT 142A Math Concepts Lab	٠,		MAT 167A Discrete Math Lab	171 171		_			MAT 263 Brief Calculus	∢	_	272		MAT 280 Linear Algebra	MAT 285 Umerential Equations		MUS 410 Music Appropriate	MUS 110 Music Appleciation MUS 111 Findamentals of Music	MUS 112 Intro to Jazz	MUS 113 American Music	MUS 114 Non-Western Music	MUS 121 Music Theory I	MUS 122 Music Theory II	MUS 123 Music Composition MUS 131 Chorus I	MUS 132 Chorus II	MUS 133 Band I	MOS 134 Band II
NCSU	Elective HI elective HI elective		HI elective	HI elective		HI elective			STS 214	Elective	Elective	Elective	Elective	Elective	WGS 200	ENG 282	Elective	Elective	Elective	Elective	Elective	Elective		1101	FLI 102	Elective	Elective	FLI 201	FLI 202	FLI 208 FI 295	Elective	Elective			FLJ 101	FLJ 102 Floativo	Elective	FI.1 201	FLJ 202		: :: :: L	Elective
NC Cmty College	HIS 230 The Changing South HIS 231 Recent American History HIS 232 History of the Old West	233	237	HIS 260 History of Africa	262	HIS 271 The French Revolution Era	2	HUMANITIES	5	115	HUM 120 Cultural Studies	122	123	HUM 130 Myth in Hum Culture	150	160	161	HUM 170 Ine Holocaust HUM 180 Internat'l Cultural Explor	211	HUM 212 Humanities II	HUM 220 Hum Values & Meanings	HUM 230 Leadership Develop	744 14H	ITA 111 Flementary Italian	112	181	182	211	212	ITA 221 Italian Conversation ITA 231 Reading and Composition	281	282		JAPANESE	JPN 111 Elementary Japanese I	JPN 112 Elementary Japanese II	JPN 101 Japanese Lab I	•	JPN 212 Intermediate Japanese II	,	JOURNALISM	JOO 110 Intro Journalism
NCSU	Elective	Elective Elective Elective	Elective		FLG 101	FLG 102 Elective	Elective	Elective	FLG 201	FLG 202	FL 295	Flective	Elective		Flactive			PEH 285	PEH elective			HI 207	HI 205	HI elective	HI 207	HI 205	HI 251	HI 252	Elective	HI elect Flactiva	Elective	Elective	HI 233	Elective	H X; ,	HI elective	Elective	Elective	Elective	HI elective	HI elective	HI elective
NC Cmty College	GEOGRAPHY GEO 110 Introduction to Geography	GEO 111 World Reg Geography GEO 112 Cultural Geography GEO 130 Gen Physical Geography	GEO 131 Physical Geography I	GERMAN	GER 111 Elementary German I	GER 141 Culture & Civilization	GER 161 Culture Immersion	GER 181 German Lab I GER 182 German I ab II	GER 211 Intermediate German I	212	GER 221 German Conversation				GIS 111 latto to GIS		HEALTH	HEA 110 Personal Health/Wellness	HEA 112 FIISI AIG & CPR HEA 120 Community Health		HISTORY	7	175	HIS 115 Intro Global History	2 5	122	131	132	44 14 1	HIS 145 The Second World War	162	163	165	. 791	HIS 211 Ancient History	710	221	222	223	HIS 226 The Civil War	 528 28	_

				(*)
MUS 110	MUS 110	MUS 100	MUS 100	
MUS 131 Chorus I	MUS 132 Chorus II	MUS 133 Band I	MUS 134 Band II	

NCSU

NC Cmty College

NCSU	PE elective PE 237 PE elective PE 235 PE 245 PE 245 PE 256 PE 256 PE 256 PE 256 PE 257 PE elective PE 247 PE 251 P	PE 255 PE elective
NC Cmty College	PED 116 Step Aerobics II PED 117 Weight Training I PED 118 Weight Training II PED 119 Circuit Training II PED 120 Walking for Fitness PED 121 Walk, Jog, Run PED 122 Yoga I PED 123 Yoga II PED 125 Self-Defense/Beg PED 126 Self-Defense/Beg PED 127 Karate PED 127 Karate PED 128 Golf/Beginner PED 130 Tennis/Beginner PED 131 Tennis/Intermediate PED 132 Racquetball/Beginner PED 133 Racquetball/Beginner PED 134 Wrestling PED 135 Fencing/Intermediate PED 136 Fencing/Intermediate PED 137 Badminton PED 138 Archery PED 138 Archery PED 139 Bowling/Beginner PED 139 Bowling/Beginner PED 140 Bowling/Intermediate PED 141 Tumbling/Gymnastics PED 142 Lifetime Sports PED 144 Volleyball/Beginner PED 145 Basketball/Intermediate PED 146 Basketball/Intermediate PED 147 Soccer PED 148 Softball PED 150 Baseball/Intermediate PED 151 Baseball/Intermediate PED 152 Beginning Swimming PED 153 Intermediate Swimming PED 155 Water Aerobics PED 156 Scuba Diving PED 158 Sailboarding	
NCSU	MUS 100 MUS 100 MUS 100 MUS 100 MUS 100 MUS 100 Elective Elective Elective MUS elective Elective Elective Elective Elective Elective Elective Elective MUS 100 MUS elective	MUS elective MUS elective MUS elective PE elective PE elective PE elective PE elective PE elective PE elective
NC Cmty College	MUS 135 Jazz Ensemble I MUS 136 Jazz Ensemble II MUS 137 Orchestra I MUS 138 Orchestra II MUS 141 Ensemble II MUS 142 Ensemble II MUS 152 Class Music II MUS 152 Class Music II MUS 152 Class Music II MUS 161 Applied Music II MUS 173 Opera Production II MUS 173 Opera Production II MUS 174 Opera Production II MUS 174 Opera Production II MUS 210 Hist of Rock Music MUS 211 Hist of Country Music MUS 212 American Music II MUS 213 Electronic Music II MUS 214 Electronic Music II MUS 215 Electronic Music II MUS 221 Music Theory III MUS 222 Music Theory III MUS 223 Chorus IV MUS 234 Band III MUS 235 Jazz Ensemble III MUS 236 Jazz Ensemble III MUS 237 Orchestra III MUS 238 Orchestra III MUS 242 Ensemble III MUS 252 Class Music III MUS 253 Class Music III MUS 254 Ensemble III MUS 255 Class Music III MUS 256 Piano Pedagogy MUS 273 Opera Production III MUS 280 Music for the El Classroom MUS 281 Show Choir III	MUS 282 Show Choir IV MUS 283 Varied Cult/Mus Perf PHYSICAL EDUCATION PED 110 Fit & Well for Life All one-hour PED activity courses PED 111 Physical Fitness I PED 112 Physical Fitness II PED 113 Aerobics I PED 114 Aerobics II PED 115 Step Aerobics I

PE 258	PE elective	PE elective	PE elective	PE elective	PE elective	PE elective	PE elective	. PE elective	iate PE elective	PE elective	PE 234	PE elective	PE elective	ng PE elective	diate PE elective	PE elective	PE elective	PE elective	PE elective	PE elective	PE elective	PE elective	ball Elective	Elective			PEC 202	PEC 203	PEC 201	PEC 205	ijury Elective	PE 223			
Rock Climbina	Wilderness Pursuit	Horseback Riding I	Horseback Riding II	Ice Skating	In-Line Skating	Roller Skating	Cycling	Snow Skiing/Beginner	Snow Skiing/Intermediate	Folk Dancing	Square Dancing I	Square Dancing II	Dancing for Fitness	Social Dance/Beginning	Social Dance/Intermediate	Clogging	Team Sports	New Games	Snowboarding Beg	Sailboarding	Exer-Phys Challenge	Adv PE Skills	Offic/Basketball/Volleyball	Offic/Football/Soccer	Offic/Baseball/Softball	Open Water Swimming	Coaching Basketball	Coaching Football	Coaching Baseball	Coaching Soccer	Prev & Care Athlete Injury	Lifeguard Training	_	Canoeing/Instructor	
PED 173	∃D 17	<u>□</u>	PED 176	PED 177	PED 178	PED 179	PED 180	PED 181	PED 182	PED 183	PED 184	PED 185	PED 186	PED 187	PED 188	7	\cap	PED 211	\cap	PED 214	PED 220	\cap	PED 250	PED 251	\cap	\cap	PED 254	\cap	PED 256	\cap	PED 259	PED 260	\cap		270

PEC 201 PEC 205	Elective	PE 223 PE elective	PE elective	PE elective		PHI elective	PHI 300	PHI 250	PHI 221		Elective	Elective		PY 131	PY 211	PY 212	PY 205
PED 256 Coaching Baseball PED 257 Coaching Soccer	PED 259 Prev & Care Athlete Injury	PED 260 Liteguard Iraining PED 262 Water Safety Instructions	PED 270 Canoeing/Instructor	PED 276 Sailing Instructor	PHILOSOPHY		PHI 213 Philosophy Issues PHI 220 Western Philosophy I		PHI 240 Intro to Ethics	PHYSICAL SCIENCE	PHS 110 Basic Physical Science	PHS 130 Earth Science	PHYSICS	PHY 110 & 110A Conceptual Phys	PHY 151 College Physics I	PHY 152 College Physics II	PHY 251 General Physics I

NCSU	an II FLR 202 Ion FL 295 ersation FL 295 Elective		Elective SOC 203 SOC elective SOC 6 elective SOC 305 Elective SOC 301 Toe SOC 201 Toe SOC C elective	n FLS 101 n FLS 102 n FL 295 Elective Elective Elective Sh FLS 201 Sh FLS 202 Ion FLS 208 Cosition FL 295 Elective Elective	
NC Cmty College	RUS 212 Intermediate Russian II RUS 221 Russian Conversation RUS 231 Reading and Conversation RUS 281 Russian Lab III RUS 282 Russian Lab IV	SOC 210 Intro to Sociology SOC 213 Sociology of Family SOC 213 Sociology of Family SOC 215 Coun Bronger	SOC 215 Group Processes SOC 226 Social Problems SOC 226 Social Diversity SOC 236 Race & Ethic Relations SOC 237 Social Context of Aging SOC 234 Sociology of Gender SOC 242 Sociology of Gender SOC 242 Sociology of Deviance SOC 245 Drugs and Society SOC 250 Sociology of Religion	SPANISH SPA 111 Elementary Spanish I SPA 112 Elementary Spanish II SPA 112 Elementary Spanish II SPA 141 Culture & Civilization SPA 161 Cultural Immersion SPA 182 Spanish Lab I SPA 211 Intermediate Spanish II SPA 212 Intermediate Spanish II SPA 221 Spanish Conversation SPA 231 Reading and Composition SPA 281 Spanish Lab III SPA 281 Spanish Lab III SPA 282 Spanish Lab III	
NCSU	PY 208 PS elective PS 201	PS 202 PS 241 PS 231 PS elective	FLP 101 FLP 102 FL 295 Elective Elective FLP 201 FLP 202 FLP elect FL 295	PSY 200 PSY elective PSY elective PSY elective PSY 311 PSY elective PSY 376 PSY elective	REL 300 REL elective REL elective REL 311 REL 312 REL 320 FLR 101 FLR 102 Elective Elective FLR 201
NC Cmty College	PHY 252 General Physics II POLITICAL SCIENCE POL 110 Intro Political Science POL 120 American Government	POL 130 State & Local Gov't POL 210 Comp Government POL 220 International Relations POL 250 Intro Political Theory	PORTUGUESE POR 111 Elementary Portuguese I POR 112 Elementary Portuguese I POR 141 Culture & Civilization POR 181 Portuguese Lab I POR 182 Portuguese Lab II POR 211 Intermed Portuguese I POR 221 Intermed Portuguese II POR 221 Portuguese Conversation POR 231 Portuguese Read & Comp	POR 282 Portuguese Lab IV PSYCHOLOGY PSY 150 General Psychology PSY 211 Psychology of Adjustment PSY 215 Positive Psychology PSY 231 Forensic Psychology PSY 237 Social Psychology PSY 239 Psych of Personality PSY 241 Developmental Psych PSY 243 Child Psychology PSY 243 Child Psychology PSY 249 Psychology of Aging PSY 249 Psychology of Aging PSY 259 Human Sexuality PSY 263 Educational Psychology PSY 263 Educational Psychology PSY 271 Sports Psychology PSY 272 Health Psychology PSY 273 Health Psychology PSY 273 Abnormal Psych	REL 110 World Religions REL 111 Eastern Religions REL 112 Western Religions REL 211 Intro Old Testament REL 212 Intro Old Testament REL 221 Religion in America RUSSIAN RUSSIAN RUS 111 Elementary Russian II RUS 112 Elementary Russian II RUS 118 Elementary Russian II RUS 119 Elementary Russian II RUS 111 Elementary Russian II RUS 112 Elementary Russian II RUS 112 Intermediate Russian II

Biological Engineering [11BEBS Req Term Spring 13]

			Freshman	Year			
		Fall Semester	Credits	;		Spring Semester	Credits
CH	101	Chemistry, A Molecular Science ¹	3	BAE	100	Intro to Biol. Engr.	1
CH	102	General Chemistry Lab ¹	1	CH	***	Chemistry Elective ³	4
E		Introduction to Engr & Prob Solv ^{1,2}	1	MA	241	Calculus II ¹	4
E	115	Intro to Computing Environ ^{1,2}	1	PY	205	Physics for Engr & Sc I ¹	3
ENG	101	Academic Writing and Research ^{1,2}	4	PY	206	Physics for Engr & Sc I ¹ Lab	1
MA	141	Calculus I ¹	4	EC	205	Economics (GEP Soc Sci Req*) ⁴	3
HESF	1**	Fitness & Wellness	1			-	
			Semester Total 15			Semester Tota	al 16
			Sophomore	Year			
		Fall Semester	Credits	;		Spring Semester	Credits
BAE	200	Comp Meth In Biol Engr	2	BAE	202	Intro to BAE Methods	4
MAE	206	Engineering Statics or		MAE	208	Engineering Dynamics ²	3
CE	214	Engineering Mechanics-Statics ²	3	MA	341	Applied Diff Equations	3
MA	242	Calculus III	4	MAE	301	Engr Thermodynamics I	3
PY	208	Physics for Engr & Sc II	3	***	***	Biological Science/Chem Elective ⁵	3
PY BIO	208 181	Physics for Engr & Sc II Lab Intro Biol: Ecol, Evol & Biodiv <i>or</i>	1				
BIO	183	Intro. Biol: Cell & Mol Biol	4				
ыо	103	intro. Bioi. Celi & Moi Bioi	Semester Total 17			Semester Total	al 16
			Junior Y	ear			
		Fall Semester	Credits			Spring Semester	Credits
BAE	302	Transport Phenomena	3	BAE	315	Prop Biol Eng Materials	3
BAE	***	BAE Elective ⁶	3	BAE	***	BAE Elective ⁶	3
	308	Fluid Mechanics or	J	MAE	314	Solid Mechanics <i>or</i>	3
CE		Hydraulics ²	3	CE	-	Mechanics of Solids ²	3
ECE	331		3	ST		Prob & Statistics for Engr	3
***	***	Adv. Biol Elective ⁷	3	***	***	GEP Requirement*	3
		Tav. Biol Block.	J	HES	***	Health & Exercise Studies	1
			Semester Total 15	1125		Semester Total	al 16
			Senior Y	ear			
		Fall Semester	Credits			Spring Semester	Credits
BAE	401	Bioinstrumentation	3	BAE	452	Engr Design II	2
BAE	451	Engr Design I	2	BAE	***	BAE 425 Industr Micro & Bioproc <i>or</i>	-
***	***	Engr Elective ⁸	3	D. IL		BAE 474 Ecological Engineering	3
***	***	Ethics (GEP IP Requirement*) ⁹	3	***	***	GEP Requirement*	3
ENG	331	Comm. Engr. & Tech. or	3	***	***	GEP IP Requirement *	2-3
ENG	333	Comm. Sci. & Res.	<u> </u>	***	***	GEP Requirement*	3
2	222			***	***	GEP Requirement*	3
			Semester Total 14			Semester Total	-
			M	linimum	Tota	l Credit Hours Required for Graduation	n 125

Minimum Total Credit Hours Required for Graduation 125

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses.

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health & Exercise Studies (2 credit hours – must include one HESF 100-level course)

Choose from the University approved GEP Health & Exercise Studies course list. Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

Interdisciplinary Perspectives (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course

lists as meeting the U.S. Diversity (USD) co-requisite. J. Global Knowledge (GK) Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course list or choose a course identified on the approved GEP course in Language and Co

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

³Choose from CH 201& 202; CH 220; or CH 221 & 222. ⁴Choose from EC 205, ARE 201 or EC 201.

⁵Choose from SSC 200, CH 201& 202; CH 220; CH 221 & 222, PB(BIO) 360 or any advanced biology elective (footnote #7).

⁶Choose from BAE 361, 322, 371, or 481.

⁷Choose from GN 311, HS(FS) 462, MB 351, PB 321, PB(BIO) 360, BIO 361, BIO 414, SSC 332.

⁸Choose from BAE 361, 322, 371, 425, 462, 471, 472, 473, 474, 481, 528, or 578; or CHE 435; or ISE 311; or TE 435.

⁹Choose from IDS 201, STS 302, or 304.

Biomedical Engineering [14BMEBS Req Term Spring 13]

			Freshma	n Vear			
		Fall Semester	Cred			Spring Semester	Credits
СН	101	Chemistry, A Molecular Science ¹	3	CH	221	Organic Chem I	3
CH		General Chemistry Lab ¹	1	CH		Organic Chem I Lab	1
Е		Introduction to Engr & Prob Solv ¹	-	MA		Calculus II ¹	4
Ē		Intro to Computing Environ ^{1,2}	1	PY		Physics for Engr & Sc I ¹	3
		Academic Writing and Research ^{1,2}	4	PY		Physics for Engr & Sc I Lab ¹	1
MA		Calculus I ¹	4	EC		Economics (GEP Soc Sci Reg*) ³	3
HESF	1**	Fitness & Wellness	1	HES		Health & Exercise Studies	1
			Semester Total 15			Semester Total	al 16
			Sophomo	re Vear			
		Fall Semester	Cred			Spring Semester	Credits
BME	201	Comp Meth in BME	3	BIO	183	Intro Biol: Cellular & Molecular	4
		Biomedical Measurements	3	BME		Intro Mat Sci of Biomaterials	3
		Engineering Statics or	3	BME		Engineering Design I	1
CE	214	Engineering Mechanics - Statics		BME		Analog & Digital Circuits	4
MA		Calculus III	4	MAE		Engineering Dynamics or	3
PY	208	Physics for Engr & Sc II	3	CE	215	Engineering Mechanics - Dynamics	
PY		Physics for Engr & Sc II Lab	1			5 5	
		5	Semester Total 17			Semester Total	al 15
			Junior	Year			
		Fall Semester	Cred	its		Spring Semester	Credits
BME	301	Human Physiology for Engineers 1	3	BME	302	Human Physiology for Engineers II	3
		Linear Systems in BME	3	***	***	BME Elective B ⁴	3
MA	341	Applied Diff Equations	3	***	***	BME Elective C ⁴	3
***	***	DIVIL LICCUIVO II	3	BME		Engineering Design II	2
ST	370	Prob and Statistics for Engrs	3	ENG		Comm.Engr.& Tech. or	3
				ENG		Comm. Sci. & Res.	
				***	***	GEP Requirement*	3
			Semester Total 15			Semester Total	al 17
			Senior	Year			
		Fall Semester	Cred	its		Spring Semester	Credits
		BME Senior Design I	3	BME		BME Senior Design II	3
***	***	BME Elective D ⁴	3	***		BME Elective F ⁴	3
***	***	BME Elective E ⁴	3	***		GEP Requirement*	2-3
MAE		Thermodynamics I or	3	***	***	GEP Requirement*	3
MSE	301	1	_	***	***	GEP Requirement*	3
***	***	GEP Requirement*	3	***	***	GEP Requirement*	3
			Semester Total 15			Semester Total	ai 17-18
			ľ	Minimum	Tota	l Credit Hours Required for Graduation	n 127
	ъ						

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205; 206 must be completed with C or higher.

⁴Choose from an appropriate sequence of electives. These must include at least 15 hours of engineering topics.

No specific emphasis: Students will work out a plan of study with their advisor that includes at least two 300- or 400-level BME electives and any other courses listed for the emphasis areas. There must be a sequence of at least three related upper-level BME electives to demonstrate an area of depth. One course can be an appropriate non-engineering course.

Biomechanics: (A) MAE 314 or CE 313: Solid Mechanics; (B) MAE 308 or CE 382: Fluid Mechanics; (C) BME 342: Experimental & Analytical Methods in

Biomechanical Engineering Analysis; (D) BME 441: Biomechanics; (E) and (F) Any BME elective or appropriate course approved by the student's advisor.

Biomaterials: (A) TE 463: Polymer Engineering; (B) PCC 471: Chemistry of Biopolymers (no engineering topics); (C) MAE 314 or CE 313: Solid Mechanics; (D) BME/TE 466: Polymeric Biomaterials; (E) Any BME elective or appropriate course approved by the student's advisor; and (F) TE/BME 467: Mechanics of Tissues and Implants. Students following this emphasis area should take MAE 301 or MSE 301 in the fall of their junior year and ST 370 in the spring of their

Biomedical Instrumentation: (A) Any BME elective or appropriate course approved by the student's advisor; (B) BME 422: Fundamentals of Biomedical Instrumentation; (C) BME 412: Biomedical Signal Processing; (D) BME 425: Bioelectricity; (E) and (F) Take two from BME 480: Biomedical Microcontroller Applications; ECE 435: Elements of Control; ECE 436: Digital Control Systems: ECE 455: Computer Control of Robots; ECE 456: Mechatronics; ECE 561: Embedded Sytems; and BME 522: Medical Instrumentation. Students following this emphasis area may choose to take a GEP course in the fall semester of the junior year and BME Elective A in the spring semester of the senior year.

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at http://oucc.ncsu.edu/gep-courses

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill

the GEP Social Sciences requirement

Health & Exercise Studies (2 credit hours – must include one HESF 100-level course)

Choose from the University approved GEP Health & Exercise Studies course lists.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. U.S. Diversity (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requis

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation.

Chemical Engineering [14CHEBS Req Term Spring 13]

	8	0.		•		
		Freshn	nan Year	r		
	Fall Semester	Credit		•	Spring Semester	Credits
СН	101 Chemistry, A Molecular Science ¹	3	СН	201	Chemistry – Quantitative Sci.	3
СН	102 General Chemistry Lab ¹	1	СН		Quantitative Chem Lab	1
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	MA		Calculus II ¹	4
E	115 Intro to Computing Environ ^{1,2}	1	PY		Physics for Engr & Sc I ¹	3
ENG	101 Academic Writing and Research ^{1,2}	4	PY		Physics for Engr & Sc I Lab ¹	1
MA	141 Calculus I ¹	4	EC		Economics (or EC 201 or ARE 201)*	3
HESF	1** Health & Exercise Studies	1	HES	***	Health & Exercise Studies	1
	Semester T	otal 15			Semester Total	16
		Sonhon	ore Yea			
	Fall Semester	Credit		ıı	Spring Semester	Credits
СН	221 Organic Chemistry I (or CH 225)	3	СН	223	Organic Chemistry II (or CH 227)	3
CH	222 Organic Chemistry I Lab (or CH 226)	1	CH		Organic Chemistry II (or CH 228)	1
CHE	205 Chemical Proc Prin ²	4	CHE		Chemical Proc Systems ²	3
MA	242 Calculus III ²	4	MA		Applied Differential Eq ²	3
***	*** GEP Requirement*	3	PY		Physics Engr & Scientists II	3
	ODI Requirement	3	PY		Physics Engr & Scientists II Lab	1
			***		GEP Requirement*	3
	Semester T	otal 15			Semester Total	_
			or Year			
	Fall Semester	Credit			Spring Semester	Credits
CH	315 Quantitative Analysis	4	CH		Chemistry Elective ³	4
CHE	311 Transport Processes I ²	3	CHE		Transport Processes II	3
CHE	315 Chem Process Thermo	3	CHE	316	Thermo of Chem & Phase Eq	3
ECE	331 Prin Electrical Engr <i>or</i>		CHE		Chem Engr Lab I	4
MSE	201 Struct & Prop Engr Mat	3	***	***	Free Elective	3
***	*** GEP Requirement*	3				
CHE	395 Professional Dev Seminar	1				
	Semester T	otal 17			Semester Total	17
		Senio	r Year			
	Fall Semester	Credit	S		Spring Semester	Credits
CHE	331 Chem Engr Lab II	2	CHE	435	Proc System Analy & Control	3
CHE	446 Des & Analy Chem Reactors	3	CHE		CHE Design II	3
CHE	450 CHE Design I	3	***		Technical Elective ⁴	3
***	*** Technical Elective ⁴	3	***	***	GEP Requirement*	3
***	*** GEP Requirement*	3	***		GEP Requirement (Interdisc Persp)*	2-3
	Semester T	otal 14			Semester Total	14-15
		3.51		1.4.1.4	Constitution Description of the Constitution	105
<u>Ma</u> jo	r/Program requirements and footnotes:				Credit Hours Required for Graduation	125
1Cour	ses required for Change of Degree Audit (CODA). CH	101, 102; MA	141, 241;	PY 20	5, 206 must be completed with C or higher.	

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher ²Grade of C- or better required, E 115 requires satisfactory completion (S).

³Chemistry electives include: BCH 351, BCH 451, CH 335, CH 437, CH 610, FS 402, FS 502, PCC 461, PCC 464, PSE 335.

⁴Technical Electives: BAE 322, BEC 462, BEC 463, BEC 488, BEC 562, BEC 577, BIT 464, BIT 563, BME 466, CE 373, CE 476, CE 477, CE 479, CE 484, E 304, ECE 331, ECE 468, ECE 568, ISE 311, ISE 443, CHE 460 and higher electives, MAE 206, MAE 208, MAE

314, MAE 406, MAE 421, MSE 201, MEA 479, NE 404, NE 419, PSE 425, TE 466

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses. Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health & Exercise Studies (2 credit hours - must include one HESF 100-level course)

Choose from the University approved GEP Health & Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

 $\underline{ \ \, \text{The following $\textbf{Co-Requisites} must be satisfied to complete the General Education Program requirements:} }$

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

² Grade of C- or better required. E 115 requires satisfactory completion (S).

³ Choose from EC 201 or 205, or ARE 201.

Civil Engineering [14CEBS Req Term Sum 2 2015]

			Freshmar	ı Year			
		Fall Semester	Credit	S		Spring Semester	Credits
CH	101	Chemistry, A Molecular Scien	nce ¹ 3	CSC	111	Intro to Comp - Python	3
CH		General Chemistry Lab ¹	1	EC		Economics (GEP Soc Sci Req*)	3
E		Introduction to Engr & Prob S	Solv ^{1,2}	MA		Calculus II ¹	4
E		Intro to Computing Environ ^{1,2}		PY	205	Physics for Engr & Sc I ¹	3
ENG		Academic Writing and Resear		PY		Physics for Engr & Sc I Lab ¹	1
MA		Calculus I ¹	4	HES		Health & Exercise Studies	1
HESF	1**	Fitness & Wellness	1				
			Semester Total 15			Semester Total	15
			Sophomor	e Year			
		Fall Semester	Credit			Spring Semester	Credits
CE	214	Engr Mech - Statics ²	3	CE	313	Mechanics of Solids	3
TDE		Civil Engineering Graphics	3	CE		Hydraulics	3
MA		Calculus III	4	MA	341	Appl Differential Eq or	
PY	208	Physics for Engr & Sc II	3	MA		Elem Linear Algebra	3
PY		Physics for Engr & Sc II Lab	1	MSE		Mech Prop of Struct Mat	3
***	***	GEP Requirement*	3	***	***	GEP Requirement*	3
			Semester Total 17			Semester Total	15
			Junior '	Year			
		Fall Semester	Credit	S		Spring Semester	Credits
CE	***	CE Area Intro Elective ³	3	CE	***	CE Area Intro Elective ³	3
CE	***	CE Area Intro Elective ³	3	CE	***	CE Area Intro Elective ³	3
CE	***	CE Area Intro Elective ³	3	CE	***	CE Elective I ⁴	3
CE		Engineering Economics	1	***	***	Basic Science Elect ⁵	3
ST	370	Prob & Stat for Engr	3	CE	***	CE Lab, if needed (CE 324 or CE 381)	0
***	***	GEP Requirement*	3	***	***	GEP Requirement*	3
			Semester Total 16			Semester Total	15
			Senior Y				
		Fall Semester	Credit			Spring Semester	Credits
CE	***	CE Elective ⁴	3	CE	***	CE Elective ⁴	3
CE	***	CE Elective ⁴	3	CE	***	CE Elective ⁴	3
CE	***	CE Elective ⁴	3	***	***	CE Elective ⁴	3
***	***	CE/MA/Science Elective	3	***	***	GEP Requirement*	3
***	***	COM 110 or ENG 331	3	***	***	GEP Requirement*	2-3
***	***	ECE 331 or MAE 301	3				
			Semester Total 18			Semester Total	14-15
			Minim	ım Tota	l Cred	lit Hours Required for Graduation	126

Major/Program requirements and footnotes:

¹Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Minimum grade of C-, E 115 requires satisfactory completion (S).

³CE Area Intro Electives to be selected following approved list: CE 263, CE 305, CE 327, CE 332, CE 339, CE 342, CE 367, CE 373, CE 383, CE 426. CE 487

⁴CE Electives to be selected following approved list: CE 215, CE 301, CE 305, CE 324, CE 325, CE 327, CE 332, CE 339, CE 342, CE 367, CE 373 CE 381, CE 383, CE 400, CE 401, CE 402, CE 403, CE 413, CE 420, CE 421, CE 425, CE 426, CE 435, CE 437, CE 440, CE 443, CE 444, CE 450

CE 463, CE 466, CE 476, CE 477, CE 479, CE 480, CE 484, CE 487, CE 488 ⁵Basic Science elective - Select one: BIO 181, BIO 183 or MEA 101.

One CE elective must be a capstone design from the list: CE 400, CE 420, CE 421, CE 450, CE 480.

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at http://oucc.ncsu.edu/gep-courses.

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list .

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health & Exercise Studies (2 credit hours – must include one HESF 100-level course)

Choose from the University approved GEP Health & Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation

Construction Engineering [14CNEBS Subplan CNEGEN Req Term Spring 15]

			Fres	hman Y	ear		
		Fall Semester	Credi	ts		Spring Semester	Credits
CH	101	Chemistry, A Molecular Science ¹	3	CSC	111	Intro to Comp - Python	3
CH	102	General Chemistry Lab ¹	1	EC	205	Econ (ARE/EC 201; GEP Soc Sci Req'ment*)	3
E		Introduction to Engr & Prob Solv ^{1,2}	1	MA	241	Calculus II ¹	4
Е	115	Intro to Computing Environ ^{1,2}	1	PY		Physics for Engr & Sc I ¹	3
ENG	101	Academic Writing and Research ^{1,2}	4	PY		Physics for Engr & Sc I Lab ¹	1
MA		Calculus I ¹	4	HES*	***	Health & Exercise Studies	1
HESF	10*	Fitness & Wellness Course*	1				
		Semester Te	otal 15			Semester Total	15
			Soph	omore Y	ear		
		Fall Semester	Credi			Spring Semester	Credits
CE	214	Engr Mech - Statics ²	3	CE	313	Mechanics of Solids	3
TDE		Civil Engineering Graphics	3	MA	302	Num Analysis of Diff Eqns	1
MA		Calculus III	4	MSE	200	Mech Prop of Struct Mat	3
PY	208	Physics for Engr & Sc II	3	CE		Construction Equipment & Methods	3
PY		Physics for Engr & Sc II Lab	1	ST		Prob & Stat for Engr	3
CE		Intro to Construction Engr	3	***		Mgt Science Elective (GEP Soc Sci) ³	3
		Semester To	otal 17			Semester Total	16
			Jui	nior Yea	r		
		Fall Semester	Credi	ts		Spring Semester	Credits
CE	301	Civil Engr Measur & Geomatics	3	CE	327	Reinforced Concrete Design	3
CE		Materials of Construction	3	CE		Eng Behav of Soils & Fdns	4
CE	382	Hydraulies	3	CE	464	Legal Aspects of Contracting	3
CE		Engineering Economics	1	***		Math / Science Elective ⁴	4
CE		Const Est, Planning & Cont	3	CE	***	CE Elective ⁶	3
***		COM 110 or ENG 331	3				
		Semester To	otal 16			Semester Total	17
			Sei	nior Yea	r		
		Fall Semester	Credi	ts		Spring Semester	Credits
CE	426	Structural Steel Design	3	ACC	200	Intro to Managerial Accounting or	3
CE	466	Building Construction Engr	3	MIE	330	Human Resource Mgt ⁵	
ECE		Prin of Elect Engr or		CE		Constr Engr Project	3
MAE	301	Engr Thermodynamics I	3	CE	***	CE Lab (CE 324 or CE 381 or 468)	1
***	***	GEP Requirement*	3	***		GEP Requirement*	3
***	***	GEP Requirement*	3	***	***	GEP Requirement*	3
		*		***	***	GEP Requirement (Interdisc Perspectives)*	2
		Semester To	otal 15			Semester Total	15
				Minim	um T	otal Credit Hours Required for Graduation	127
Maio	r/Droc	rom requirements and feetnates:				2. J.	

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher

²Grade of C- or better required, E 115 requires satisfactory completion (S).

³Select from SOC 205, SOC 301, SOC/AFS 305 (USD), SOC 310, PS 202, PS 310, PS 312, PS 314, PS 320, LPS 315

⁴Math/Science Elective - Select one: BIO 183, CH 201 and 202, or MEA 101 and MEA 110 or MA 302 & either MA 305 or MA 341

⁵MIE 330 is restricted to BUS Majors and Minors

⁶CE 305, CE 325, CE 367, CE 383

$\underline{^*General\ Education\ Program\ (GEP)\ requirements\ and\ GEP\ Footnotes:}$

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at http://oucc.ncsu.edu/gep-courses.

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requiremen; and one of SOC 205, SOC 301, SOC/AFS 305 (USD), PS 202, PS 310, PS 312, F 314, PS 315, PS 320 taken as part of the Major requirement satisfies 6 credit hours needed to fulfill the GEP Social Sciences requirement from two different

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

Construction Engineering [14CNEBS Subplan CNEMEC Req Term Spring 15]

		Fres	hman Yo	ear	
	Fall Semester	Credi	S	Spring Semester	Credit.
CH	101 Chemistry, A Molecular Science ¹	3	CSC	111 Intro to Comp Python	3
CH	102 General Chemistry Lab ¹	1	EC	205 Econ (ARE/EC 201; GEP Soc Sci Req'mer	nt 3
Е	101 Introduction to Engr & Prob Solv ^{1,2}	1	MA	241 Calculus II ¹	4
Е	115 Intro to Computing Environ ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
ENG	101 Academic Writing and Research ^{1,2}	4	PY	206 Physics for Engr & Sc I Lab ¹	1
MA	141 Calculus I ¹	4	HES	*** Health & Exercise Studies	1
HESF	10* Fitness & Wellness	1			
	Semester Tot	tal 15		Semester Tota	al 15
		Soph	omore Y	ear	
	Fall Semester	Credi	S	Spring Semester	Credit.
CE	214 Engr Mech - Statics ²	3	CE	313 Mechanics of Solids	3
TDE	220 Civil Engineering Graphics (or GC 120)	3	CE	365 Construction Equipment & Methods	3
MA	242 Calculus III	4	MSE	200 Mech Prop of Struct Mat	3
PY	208 Physics for Engr & Sc II	3	MAE	301 Engr. Thermodynamics I	3
PY	209 Physics for Engr & Sc II Lab	1	ST	370 Prob & Stat for Engr	3
CE	263 Intro to Construction Engr	3	***	*** Mgt Science Elective (GEP Soc Sci) ³	3
	Semester To	tal 17		Semester Tota	al 18
		Ju	nior Yea	r	
	Fall Semester	Credi	S	Spring Semester	Credit.
CE	382 Hydraulics	3	CE	367 Mech & Elect Sys in Bldgs	3
CE	463 Const Est, Planning & Cont	3	CE	464 Legal Aspects of Contracting	3
CE	390 Engineering Economics	1	CE	*** CE Elective (CE 305, 332, 373 or 383)	3
MAE	č ,	3	MAE	305 ME Lab I	1
MA	302 Num Analysis of Diff Eqns	1	MAE	310 Cond & Radiation Heat Trans	3
MA	341 Differential Equations	3	***	*** GEP Requirement*	3
***	*** COM 110 or ENG 331 Semester To	3 tol. 17		Semester Tota	al 16
	Semester 10	iai 17		Semester Tota	11 10
	Fall Semester	Sei Credit	nior Yea		Cuadit
ACC	200 Intro to Managerial Accounting <i>or</i>	Crean	S CE	Spring Semester 469 Constr Engr Project	Credit. 3
MIE	330 Human Resource Mgt	3	MAE	403 Air Conditioning	3
ECE	331 Prin of Elect Engr I	3	***	*** General Engineering Elective ⁴	1
MAE	Č	3	***	*** GEP Requirement*	3
***	*** GEP Requirement*	3	***	*** GEP Requirement*	2
***	*** GEP Requirement*	3		GLI Requirement	_
	Semester To	-		Semester Tota	ıl 15
		I	Minimun	n Total Credit Hours Required for Graduation	n 127

Major/Program requirements and footnotes:

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. Universi approved GEP course lists for each of the following categories can be found at http://www.ncsu.edu/uap/academic-standards/gep/courselists/index.html

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course)
Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts <u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

U.S. Diversity (USD)

hoose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course

lists as meeting the U.S. Diversity (USD) co-requisite. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

Environmental Engineering [14ENEBS Req Term Spring 13]

Freshman Year									
		Fall Semester	Credit	S		Spring Semester	Credits		
CH	101	Chemistry, A Molecular Science ¹	3	CH	201	Chemistry - A Quantitative Science	3		
CH	102	General Chemistry Lab ¹	1	EC	205	Econ (ARE/EC 201; GEP Soc Sci Req'ment*)	3		
E		Introduction to Engr & Prob Solv ^{1,2}	1	MA		Calculus II ¹	4		
E		Intro to Computing Environ ^{1,2}	1	PY		Physics for Engr & Sc I ¹	3		
ENG	101	Academic Writing and Research ^{1,2}	4	PY		Physics for Engr & Sc I Lab ¹	1		
MA		Calculus I ¹	4	HES	***	Health & Exercise Studies	1		
HESF	10*	Fitness & Wellness Course*	1						
		Semester Tot	al 15			Semester Total	15		
			Sophor	nore Y	ear				
		Fall Semester	Credit	S		Spring Semester	Credits		
CE	214	Engr Mech – Statics	3	BIO	183	Intro. Biol: Cell & Mol Biol	4		
CE	373	Fundamentals of Envr Engr	3	CE	313	Mechanics of Solids	3		
CHE	205	Chem Proc Principles	4	CSC	111	Intro to Computing Python	3		
MA		Calculus III	4			Earth System Chemistry	3		
***	***	COM 110 (preferred) or GC 120 (GEP) ³	3	MA	341	Appl Differential Equations I	3		
		Semester Tot	al 17			Semester Total	16		
			Juni	or Yea	r				
		Fall Semester	Credit	S		Spring Semester	Credits		
CE		Environ Chem & Microbiology	4	CE		Engr Behavior of Soils & Found	4		
CE		Engineering Economics	1	CE		Hydraulics Sys Meas Lab	1		
CE		Civil Engineering Systems	3	CE		Hydrology & Urban Water Sys	3		
CE		Hydraulics	3	MAE	301	Engr Thermodynamics I	3		
PY		Physics for Engr & Sc II	3			Graphics/Communication Elective ³	3		
PY		Physics for Engr & Sc II Lab	1	PS	-	US Environ Law and Politics or			
ST	370	Probability & Statistics for Engr	3	PS	336	Global Envir Pol (GEP Soc Sci Req*)	3		
		Semester Tot	al 18			Semester Total	17		
			Seni	or Yea					
CE		Air Pollution Control or		CE		Solid Waste Engineering	3		
CE		Air Quality	3	CE		Environmental Engineering Project	3		
CE		Water Supply & Waste Water Sys	3			Environmental Engr Elect ⁴	3		
CE		Water Resources Engineering	3			GEP Requirement*	3		
***		GEP Requirement*	3	***	***	GEP Requirement (Interdisciplinary Persp)*	2-3		
***	***	GEP Requirement*	3						
		Semester Tot				Semester Total			
			Min	imum '	Total	Credit Hours Required for Graduation	127		

Major/Program requirements and footnotes:

¹Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher. ²Minimum grade of C-, E 115 requires satisfactory completion (S).

³Graphics/Communication Elective: If select COM 110, take GIS 410 or TDE 220; if select GC 120, take ENG 331 or COM 110.

⁴Select from CE(MEA) 435 (Spring only), CE 476 (Fall only), CE(MEA) 479 (Spring only) or CE 487 (Spring only).

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at http://oucc.ncsu.edu/gep-courses.

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requiremen; and PS 320 or PS 336

taken as part of the Major requirement satisfies 6 credit hours needed to fulfill the GEP Social Sciences requirement from two different disciplines.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course) Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation.

¹Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).

³Select from SOC 205, SOC 301, SOC/AFS 305 (USD), SOC 310, PS 202, PS 310, PS 312, PS 314, PS 320, LPS 315

⁴General Engineering Elective: either CE 342, or MAE 306 ME Lab II plus one of the following: CE 301, CE 305, CE 327*, CE 373, CE 383, CE 476*(F), CE 477*(S), CE 478 (F), CE 479* (S), CE 487 (S), or MAE 421 (S): *(CE 327: pre-req CE 332) (CE 476, CE 477, & CE 479: pre-req CE 373)

Computer Science [14CSCBS Req Term Spring 13]

			Freshm	ıan Yea	r		
		Fall Semester	Credits			Spring Semester	Credits
CH	101 (Chemistry, A Molecular Scien	ce ¹ 3	CSC	116	Intro to Computing - JAVA ²	3
CH		General Chemistry Lab ¹	1	MA	241	Calculus II ¹	4
E	101 I	Introduction to Engr & Prob S	olv ^{1,2} 1	PY	205	Physics for Engr & Sc I ¹	3
E	115 I	Intro to Computing Environ ¹	1	PY	206	Physics for Engr & Sc I Lab ¹	1
ENG	101 A	Academic Writing and Research	ch ^{1,2} 4	***	***	GEP Requirement*	3
MA	141 (Calculus I ^{1,2}	4	HESF	1**	Fitness & Wellness	1
		Se	emester Total 14			Semeste	r Total 15
			Sophom	ore Yea	ır		
		Fall Semester	Credits			Spring Semester	Credits
CSC	216 I	Prog Lang Concepts-Java ²	3	CSC	230	C & Software Tools	3
CSC	226 A	Appl Discrete Math for CSC ²	3	CSC	316	Data Structures for CSC	3
MA		Calculus III	4	MA	305	Intro Linear Algebra and Matrices	
PY		Physics for Engr & Sc II	3	***	***	GEP Requirement*	3
PY		Physics for Engr & Sc II Lab	1	***	***	Basic Science Elect ³	3
HES	*** I	Health & Exercise Studies	1				
		Se	emester Total 15			Semester	r Total 15
			0	r Year			
		Fall Semester	Credits			Spring Semester	Credits
CSC		Comp Org & Assem Lang for		CSC		Software Engineering	3
CSC		Operating Systems for CSC	3	CSC		Ethics in Computing	1
CSC		Automata Theory	3	CSC		CSC Restricted Elective ⁴	3
ST ***		Prob and Stat for Engrs	3	ENG		Comm for Engr and Tech	3
***	*** (GEP Requirement*	3	EC		Fund of Econ (EC 201 or ARE 20	,
		_		***	***	Other Restricted Elective ⁴	3
		Se	emester Total 15			Semester	r Total 16
				r Year			
000	ala ala ala	Fall Semester	Credits		400	Spring Semester	Credits
CSC		CSC Restricted Elective ⁴	3	CSC		CSC Senior Design Project	3
CSC		CSC Restricted Elective ⁴	3	CSC		CSC Restricted Elective ⁴	3
***		GEP Requirement*	3	***	***	Other Restricted Elective ⁴	3
***		GEP Requirement*	3	***	***	Free Elective	3
***	*** (Other Restricted Elective ⁴	3	***		GEP Requirement*	2-3
		~		***	***	Free Elective	0-1
		Se	emester Total 15		F 4 7 4	Semester	
			Mii	iimum '	ı otal (Credit Hours Required for Grad	uation 120

Major/Program requirements and footnotes:

- ¹ Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.
- ²D+ or lower grades are not accepted.
- ³ To be selected from CH 201, PY 123, 124, or any PY course with a prerequisite of PY 208, or any PB, BIO, MEA, or ZO course.
- ⁴ CSC and Other Restricted Electives, see: http://www.csc.ncsu.edu/academics/undergrad/restrict.php.
- ⁵The GPA earned in all courses attempted at NCSU must be 2.0 or higher. The GPA in all courses bearing the CSC designation must be 2.0 or higher or a grade of C- or higher in each CSC course used to satisfy the requirements in the major

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must

be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses..

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

U.S. Diversity (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation.

Computer Engineering [14CPEBS Req Term Spring 13]

		Fresh	man Yea	r		
	Fall Semester	Credi	ts		Spring Semester	Credits
CH	101 Chemistry, A Molecular Science ¹	3	ECE	109	Intro to Computer Systems ²	3
CH	102 General Chemistry Lab ¹	1	MA	241	Calculus II ¹	4
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	PY	205	Physics for Engr & Sc I ¹	3
E	115 Intro to Computing Environ ^{1,2}	1	PY	206	Physics for Engr & Sc I ¹ Lab	1
ENG	101 Academic Writing and Research ^{1,2}	4	***	***	' Economics EC 201/205, ARE 201(GF	EP*) 3
MA	141 Calculus I ¹	4	HESF	10*	Fitness & Wellness	1
***	*** GEP Requirement*	3				
	Semester	Total 17			Semester	Total 15
		Sopho	more Yea	ır		
	Fall Semester	Credi			Spring Semester	Credits
ECE	200 Intro. to ECE Laboratory ²	4	COM	110	Public Speaking	3
ECE	209 Computer Systems Programming ²	3	CSC		Discrete Mathematics ²	3
MA	242 Calculus III	4	ECE	211	Electric Circuits ²	4
PY	208 Physics for Engr & Sc II	3	ECE	212	Fund of Logic Des ²	3
PY	209 Physics for Engr & Sc II ¹ Lab	1	ECE		Analytical Found. Of ECE ²	3
	Semester	Total 15			Semester '	Total 16
			ior Year			
	Fall Semester	Credi			Spring Semester	Credits
ECE	301 Linear Systems	3	ECE		Object-Oriented Programming	3
ECE	302 Intro. to Microelectronics	4	ECE		Engr Profession for ECE ³	1
ECE	306 Intro. to Embedded Systems	3	ECE		Design of Complex Digital Sys	3
ST	371 Intro to Prob and Dist Theory	3	***		Open/Technical Elective ⁴	3
***	*** GEP Requirement*	3	ENG		Comm for Engr & Tech	3
			HES	***	' Health & Exercise Studies	1
	Semester	Total 16			Semester '	Total 14
		Soni	or Year			
	Fall Semester	Credi			Spring Semester	Credits
ECE	484 ECE Senior Design Project I	3	ECE	185	ECE Senior Design Project II	3
ECE	4** CPE Elective ⁵	3	ECE	4**	ECE Elective ⁶	3
ECE	4** CPE Elective ⁵	3	ECE	4**	ECE Elective ⁶	3
***	*** GEP Requirement*	3	***	***	GEP Requirement*	3
***	*** GEP Requirement*	3	***	***	GEP Requirement*	2-3
	Semester	Total 15			•	Total 14-15
	Semester	- Juni 10			Semester	

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher

²Grade of C- or better required, E 115 requires satisfactory completion (S).
³Students in the entrepreneurs program should take ECE 383/ECE 482/ECE 483 instead of ECE 380/ECE 484/ECE 485.

⁴Open/Technical electives: E 304; ECE 305; ECE 308; any ECE 4** elective; CE 214 or MAE 206; ISE 311; MAE 208, MAE 301, MAE 302, MSE 200 or MSE 201

⁵ECE 4** electives (Choose 2 courses): (Comp Arch Sys) ECE 463, ECE 464; (Embed Sys) ECE 461; (Network Sys) ECE 407, ECE 470; (Software

GEC 4** electives (Choose 2): ECE 402, ECE 403, ECE 404, ECE 407, ECE 420, ECE 421, ECE 422, ECE 423, ECE 434, ECE 436, ECE 442, ECE 445, ECE 451, ECE 452, ECE 453, ECE 455, ECE 456, ECE 461, ECE 463, ECE 464, ECE 465, ECE 492 (Special Topics Classes). Students

with major GPAs greater than 3.2 can also take ECE 5** courses.

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

Minimum Total Credit Hours Required for Graduation 122

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics. Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list. The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisit

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation

Flectrical Engineering [14FFRS Reg Term Spring 13]

		Electrical Engi	neering [14H	EEBS Re	eq Term Spring 13]	
			Freshm	an Vear		
		Fall Semester	Credits		Spring Semester	Credits
СН	101	Chemistry, A Molecular Science ¹	3	ECE	109 Intro to Computer Systems ²	3
СН		General Chemistry Lab ¹	1	MA	241 Calculus II ¹	4
E		Introduction to Engr & Prob Solv ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
Е		Intro to Computing Environ ^{1,2}	1	PY	206 Physics for Engr & Sc I Lab ¹	1
ENG		Academic Writing and Research ^{1,2}	4	***	*** Economics EC 201/205, ARE 201(GEP*)	3
MA		Calculus I ¹	4	HESF	10* Fitness & Wellness	1
***	***	GEP Requirement*	3			
		Semester 7	Γotal 17		Semester Tota	ıl 15
			Sophome	ore Vear		
		Fall Semester	Credits		Spring Semester	Credits
ECE	200	Intro. to ECE Laboratory ²	4	COM	110 Public Speaking	3
ECE		Computer Systems Programming ²	3	ECE	211 Electric Circuits ²	4
MA		Calculus III	4	ECE	212 Fund of Logic Des ²	3
PY	208	Physics for Engr & Sc II	3	ECE	220 Analytical Found. Of ECE ²	3
PY		Physics for Engr & Sc II Lab	1	***	*** GEP Requirement*	3
		Semester	Total 15		Semester Tota	l 16
			Junio	r Vear		
		Fall Semester	Credits		Spring Semester	Credits
ECE	301	Linear Systems	3	ECE	303 Electromagnetic Fields	3
ECE		Intro. to Microelectronics	4	ECE	380 Engr Profession for EE ⁴	1
ECE	3**	ECE Foundation Elective ³	3	ECE	3** ECE Foundation Elective ³	3
ST		Intro to Prob and Dist Theory	3	***	*** Open/Technical Elective ⁵	3
HES*		Health & Exercise Studies	1	ENG	331 Comm for Engr & Tech	3
				***	*** GEP Requirement*	3
		Semester 7	Total 14		Semester Tota	l 16
			Senio	r Year		
		Fall Semester	Credits		Spring Semester	Credits
ECE	484	ECE Senior Design Project I	3	ECE	485 ECE Senior Design Project II	3
ECE		EE Elective ⁶	3	ECE	4** ECE Elective ⁷	3
ECE	4**	EE Elective ⁶	3	ECE	4** ECE Elective ⁷	3
***	***	Open/Technical Elective ⁵	3	***	*** GEP Requirement*	3

Minimum Total Credit Hours Required for Graduation 122

2-3

Semester Total 14-15

*** GEP Requirement*

*** GEP Requirement*

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).

³ECE foundation electives: E 304; ECE 305; ECE 308; ECE 435 or either ECE 306 or ECE 310.

⁴ Students in the entrepreneurs program should take ECE 383/ECE 482/ECE 483 instead of ECE 380/ECE 484/ECE 485.

Semester Total 15

Open/Technical electives (Choose 2): any ECE 3** or ECE 4**; CE 214 or MAE 206; ISE 311; MAE 208, MAE 301, MAE 302, MAE 308; MSE

⁶EE 4** electives (Choose 2 courses from within any one of the following lists): (Comm. Sig Proc Sys) ECE 402, ECE 420; ECE 421; (Control Sys) ECE 436, ECE 455, ECE 456; (Circ, E&M Sys) ECE 403, ECE 422; (Nano Sys) ECE 404, ECE 442, ECE 445; (Power Sys) ECE 434, ECE 451, ECE 452, ECE 453, ECE 552.

⁷ECE 4** electives (Choose 2): ECE 402, ECE 403, ECE 404, ECE 407, ECE 420, ECE 421, ECE 422, ECE 423, ECE 434, ECE 436, ECE 442,

ECE 445, ECE 451, ECE 452, ECE 453, ECE 455, ECE 456, ECE 461, ECE 463, ECE 464, ECE 465, ECE 492 (Special Topics Classes). Students with major GPAs greater than 3.2 can also take ECE 5** courses.

General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours - must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

 \overline{C} hoose from the \overline{U} niversity approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. Foreign Language proficiency - Proficiency at the FL_102 level

Industrial Engineering [14IEBS Req Term Spring 14]

		Fresh	man Yea	ır	
	Fall Semester	Credii	ts	Spring Semester	Credits
CH	101 Chemistry, A Molecular Science ¹	3			
CH	102 General Chemistry Lab ¹	1	EC	205 Economics (or EC 201 or ARE 201*)	3
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	MA	241 Calculus II ¹	4
E	115 Intro to Computing Environ ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
ENG	101 Academic Writing and Research ^{1,2}	4	PY	206 Physics for Engr & Sc I Lab ¹	1
MA	141 Calculus I ¹	4	HES	*** Health & Exercise Studies	1
HESF	10* Fitness & Wellness	1	***	*** GEP Requirement*	3
	Semester Tota	al 15		Semester Total	15
		Sopho	more Ye	ar	
	Fall Semester	Credii	ts	Spring Semester	Credits
MSE	200 Mech Prop Struc Mat	3	ECE	331 Prin of Elect Engr	3
ISE	110 Comp Model for Engrs ³	3	ISE	215 Found of Design & 3D Model for Engr	1
MA	242 Calculus III	4	ISE	216 Mfg Engr Practicum	3
PY	208 Physics for Engr & Sc II	3	MA	303 Linear Analysis	3
PY	209 Physics for Engr & Sc II Lab	1	ST	372 Intro Stat Infer & Regres	3
ST	371 Intro Prob & Dist Theory ²	3	***	*** Engr Science Elect ⁴	3
	Semester Tota	al 17		Semester Total	16
		Juni	ior Year		
	Fall Semester	Credii		Spring Semester	Credits
ENG	331 Tech Writing	3	ISE	352 Work Anal & Design	3
ISE	315 Intro to Computer-Aided Manufacturing	1	ISE	362 Stochastic Models in IE	3
ISE	316 Mfg Engr I - Processes	3	ISE	443 Quality Control	3
ISE	361 Deter Models in IE	3	***	*** Technical Elect ⁶	3
ISE	441 Intro to Simulation	3	CE	214 Engr Mech - Statics	3
***	*** Ethics (GEP Req*) ⁵ Semester Tota	3 al 16		Semester Tota	1 15
	Semester 10tz	11 10		Schester rota	1 13
			ior Year		
	Fall Semester	Credii		Spring Semester	Credits
ISE	311 Engr Economic Analysis	3	ISE	498 Sr Design Proj	3
ISE	408 Cont of Prod & Ser Sys	3	***	*** Technical Elect ⁶	3
ISE	453 Design of Prod, Logistics & Serv Syst	3	***	*** GEP Requirement*	3
***	*** Technical Elect ⁶	3	***	*** GEP Requirement*	3
***	*** GEP Requirement*	3	***	*** GEP Requirement*	2-3
	Semester Tota	al 15		Semester Total	1 14-15

Minimum Total Credit Hours Required for Graduation 124

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher

²Grade of C- or better required, E 115 requires satisfactory completion (S).

ISE 110 must be completed with a grade of C or higher.

⁴Engineering science electives: CE 313, MAE 208, MAE 301, MAE 308, or MAE 314

⁵ Ethics elective: IDS 201, IDS(NR) 303, STS 214, STS 302, STS 304, STS 322, or STS(PHI) 325

⁶ Technical elective: ISE 416, 417, 452, 462, 495; MSE 445, 465, 485; ST 430, 431

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses

<u>Humanities</u> (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list. Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours - must include one HESF 100-level course and one additional HES course) Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts <u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation.

	Materials Science & E	Ingineering	g [14MS]	EBS Req Term Spring 15]	
		Freshn	nan Year		
	Fall Semester	Credit		Spring Semester	Credits
СН	101 Chemistry, A Molecular Science ¹	3	СН	201 Chemistry, A Quant Science	3
СН	102 General Chemistry Lab ¹	1	СН	202 Quantitative Chemistry Lab	1
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	MA	241 Calculus II ¹	4
Е	115 Intro to Computing Environ ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
ENG	101 Academic Writing and Research ^{1,2}	4	PY	206 Physics for Engr & Sc I Lab ¹	1
MA	141 Calculus I ¹	4	HESF	10* Fitness & Wellness Course*	1
EC	205 Economics (or EC 201 or ARE 201)*	3	***	*** GEP Requirement*	3
	Semester To	otal 17		Semester Tota	l 16
		Sonhon	nore Yea	r	
	Fall Semester	Credit		Spring Semester	Credits
MSE	201 Struct & Prop Engr Materials ²	3	СН	220 Intro to Organic Chemistry	4
MA	242 Calculus III	4	MA	341 Applied Diff Equations I	3
ST	370 Prob & Statistics for Engineers	3	MSE	255 Exp Meth Struct Analysis of Matls	2
PY	208 Physics for Engr & Sc II	3	MSE	260 Math Methods for Material Engineers	3
PY	209 Physics for Engr & Sc II Lab	1	MSE	270 MSE Seminar	1
HES*		1	***	*** GEP Requirement*	3
				- 1 · · · · · · · · · · · · · · · · · ·	-
	Semester To	otal 15		Semester Tota	l 16
	Semester To		w Voor	Semester Tota	1 16
		Junio	or Year		
MSF	Fall Semester	Junio Credit	S	Spring Semester	Credits
MSE MSE	Fall Semester 300 Structure of Matls at Nanoscale	Junio Credit 3	s MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls	Credits
MSE	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls	Junio Credit 3 3	MSE MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls	Credits 3 3
MSE MSE	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids	Junio Credit 3 3 3	MSE MSE MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls	Credits 3 3 3
MSE	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties	Junio Credit 3 3 3 2	MSE MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls	Credits 3 3 3 3
MSE MSE MSE	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties	Junio Credit 3 3 3	MSE MSE MSE MSE MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls	Credits 3 3 3
MSE MSE MSE ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5}	Junic Credit 3 3 3 2 2 3 3 3	MSE MSE MSE MSE MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls	Credits 3 3 3 3 3
MSE MSE MSE ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5} *** GEP Requirement*	Junic Credit 3 3 3 2 2 3 3 3 3 2 2 17	MSE MSE MSE MSE MSE	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls *** Engineering Elective ^{3,5}	Credits 3 3 3 3 3
MSE MSE MSE ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5} *** GEP Requirement*	Junic Credit 3 3 3 2 2 3 3 3 3 2 2 17	MSE MSE MSE MSE MSE ***	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls *** Engineering Elective ^{3,5} Semester Tota	Credits 3 3 3 3 3 1 1 15
MSE MSE MSE ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5} *** GEP Requirement* Semester Tech	Junic Credit 3 3 3 2 3 3 2 3 3 5 7 Senic	MSE MSE MSE MSE MSE ***	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls *** Engineering Elective ^{3,5}	Credits 3 3 3 3 3
MSE MSE *** ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5} *** GEP Requirement* Semester Tech	Junic Credit 3 3 3 2 3 3 otal 17 Senic Credit	MSE MSE MSE MSE MSE ***	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls *** Engineering Elective ^{3,5} Semester Tota Spring Semester	Credits
MSE MSE MSE *** ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5} *** GEP Requirement* Semester To Fall Semester 420 Mechanical Prop of Matls 423 Intro to Matls Engr Design	Junic Credit 3 3 3 2 3 3 5 otal 17 Senic Credit 3	MSE MSE MSE MSE MSE ***	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls *** Engineering Elective ^{3,5} Semester Tota Spring Semester 470 Matl Sci & Engr Design Project	Credits 3 3 3 3 3 Credits 3
MSE MSE *** ***	Fall Semester 300 Structure of Matls at Nanoscale 301 Intro Thermodynamics of Matls 320 Intro Defects in Solids 335 Exp Meth Analysis of Matls Properties *** Tech Elect ^{3,4,5} *** GEP Requirement* Semester To Fall Semester 420 Mechanical Prop of Matls 423 Intro to Matls Engr Design	Junic Credit 3 3 3 2 3 3 3 otal 17 Senic Credit 3 1	MSE MSE MSE MSE ***	Spring Semester 355 Elect, Mag & Opt Prop of Matls 360 Kinetic Process in Matls 370 Microstructure of Inorganic Matls 380 Microstructure of Organic Matls *** Engineering Elective ^{3,5} Semester Tota Spring Semester 470 Matl Sci & Engr Design Project 480 Materials Forensics and Degradation	Credits 3 3 3 3 3 7 1 15 Credits 3 3

			,		
***	***	GEP Requirement*	3		
			Semester Total 16	Semester Total	14-15
	_			Minimum Total Credit Hours Required for Graduation	126

Major/Program requirements and footnotes:

¹Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses.

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

Aerospace Engineering [14AEBS Reg Term Sum 2 13]

	Aerospace Engi	neering [14AEBS	Req '	Term Sum 2 13]		
		Fresh	man Yea	ır			
	Fall Semester	Credii			Spring Semester		Credits
CH	101 Chemistry, A Molecular Science ¹	3	CSC	113	Intro Comp MATLAB (or	· CSC 112)	3
CH	102 General Chemistry Lab ¹	1	GC		Foundations of Graphics	,	3
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	MA		Calculus II ¹		4
E	115 Intro to Computing Environ ^{1,2}	1	PY	205	Physics for Engr & Sc I ¹		3
ENG	101 Academic Writing and Research ^{1,2}	4	PY	206	Physics for Engr & Sc I ¹ L	ab	1
MA	141 Calculus I ¹	4	HES		Health & Exercise Studies		1
EC	205 Economics (or EC 201 or ARE 201)*	3					
HESF	10* Fitness & Wellness	1					
	Semester To	tal 18				Semester Total	15
		Sonho	more Ye	ar			
	Fall Semester	Credii			Spring Semester		Credits
MA	242 Calculus III	4	MA	341	Applied Differential Eq		3
MAE	206 Engineering Statics ^{2,3}	3	MAE		Engineering Dynamics ^{2,3}		3
MAE		1	MAE		Solid Mechanics ^{2,3}		3
MAE		3	MAE	252	Aerodynamics I		3
PY	208 Physics for Engr & Sc II	3	MAE		Experimental Aerodynami	ics I	1
PY	209 Physics for Engr & Sc II Lab	1	***		GEP Requirement*		3
***	*** GEP Requirement*	3			•	Semester Total	16
	Semester To	tal 18					
		Jun	ior Year				
	Fall Semester	Credii	ts.		Spring Semester		Credits
MAE	301 Engr Thermodynamics I ²	3	MAE	351	Aerodynamics II		3
MAE	361 Dynamics & Controls	3	MAE	352	Experimental Aerodynami	ics II	1
MAE	371 Aero Struc I	3	MSE		Struc Prop of Engr Materi	als (or ECE 331)	3
MAE	372 Aero Vehicle Struc Lab	1	***	***	GEP Requirement*		3
	English Elective ⁴	3	MAE	***	Technical Elective ⁶		3
***	*** Ethics (GEP Requirement*) ⁵	3	MAE	***	Technical Elective ⁶		3
	Semester To	tal 16				Semester Total	16
		Sen	ior Year				
	Fall Semester	Credii	ts		Spring Semester		Credits
	405 Controls Lab	1	MAE		Aero Vehicle Design II		3
	435 Princ of Automatic Controls	3	***	***	GEP Requirement*		2-3
	451 Experimental Aerodynamics III	1	***		GEP Requirement*		3
MAE	480 Aero Vehicle Design I	3	MAE	***	Technical Elective ⁶		3
MAF	*** Tachnical Elective	3	MAE	***	Taabniaal Elastiya		3

Major/Program requirements and footnotes:

MAE *** Technical Elective MAE *** Technical Elective

Semester Total 14

MAE *** Technical Elective

Minimum Total Credit Hours Required for Graduation

Semester Total 14-15

127

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied.

University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses.

Humanities (6 credit hours selected from two different disciplines/course prefixes)

 ${\it Choose from the University approved GEP Humanities course \ list} \ .$

Social Sciences (6 credit hours selected from two different disciplines/course prefixes) Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours - must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list. The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. Foreign Language proficiency - Proficiency at the FL 102 level is required for graduation

²Minimum grade of C-, E 115 requires satisfactory completion (S).

³Choose any course from the following list: CE 214 or MAE 206, CE 215 or MAE 208, CE 313 or MAE 314, CSC 200, ECE 331,

ISE 311, MSE 350, MSE(NE) 409, NE 202, TE 205, CHE 455, MSE 440, MSE 445, MSE 455, MSE 456, MSE 460 ⁴Choose any course from the following list: BCH 451, CH 221, CH 223, CH 315, CH 401, CH 437, MA 305, MA 351, MA 401, MA 402, MA 405,

MEA 463, PY 328, PY 407, PY 411, PY 412, PY 414, PY 415, PY 463, ST 370, CE 214or MAE 206, CE 215 or MAE 208, CE 313 or MAE 314, CSC 200, ECE 331, ISE 311, MSE 350, MSE(NE) 409, NE 202, TE 205, CHE 455, MSE 440, MSE 445, MSE 455, MSE 456, MSE 460

⁵Choose any course from the following list: CHE 455, MSE 440, 445, 455, 456, 460.

⁶Ethics course must be chosen from the following list: IDS 201; STS 302, 304, 325 (PHI 325); PHI 214, 221 or 375.

¹Courses required for Change of Degree Audit (CODA): CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Minimum grade of C-, E 115 requires satisfactory completion (S).

³ Students must have a 2.5 GPA to enroll in this course.

⁴ENG 331 Comm Engr & Technology or other approved course.

Select from STS 302, STS 304, PHI 214 or PHI 375.

⁶ Flight/Space (3 credit hours) Select either MAE 457 Flight Stability & Control or MAE 453 Intro to Space Flight; Structures (3 credit hours) Select either MAE 472 Aero Structures II or MAE 432 Applied Finite Element; Propulsion (3 credit hours) Select either MAE 458 Propulsion or MAE 459 Rocket Propulsion; Open (9 credit hours) Select from approved lists.

Mechanical Engineering [14MEBS Req Term Summer 2 2015]

		Freshm	an Year	•	
	Fall Semester	Credits		Spring Semester	Credits
CH	101 Chemistry, A Molecular Science ¹	3	CSC	113 Intro Comp MATLAB	3
CH	102 General Chemistry Lab ¹	1	MA	241 Calculus II ¹	4
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
E	115 Intro to Computing Environ ^{1,2}	1	PY	206 Physics for Engr & Sc I ¹ Lab	1
ENG	101 Academic Writing and Research ^{1,2}	4	GC	120 Foundations of Graphics	3
MA	141 Calculus I ¹	4	HESF	10* Fitness & Wellness Course*	1
EC	205 Economics (or EC 201 or ARE 201)*	3			
HES	*** Health & Exercise Studies	1			

Semester Total 15 Semester Total 18

Minimum Total Credit Hours Required for Graduation 126

		Sopnon	iore yea	r		
	Fall Semester	Credit	S	Spring Semester	Crea	lits
MA	242 Calculus III	4	MA	341 Appl Differential Eq		3
MAE	200 Introduction to ME Design	1	MAE	201 Engr Thermodynamics I ²		3
MAE	206 Engineering Statics ^{2,3}	3	MAE	205 ME Lab I		1
PY	208 Physics for Engr & Sc II	3	MAE	208 Engineering Dynamics ^{2,3}		3
PY	209 Physics for Engr & Sc II ¹ Lab	1	MAE	214 Solid Mechanics ^{2,3}		3
ST	370 Prob & Stat for Engineers (or ST 371)	3	***	*** GEP Requirement*		3
***	*** GEP Requirement*	3				
	Semester Tot	al 18			Semester Total 16	

Sanhamana Vaan

		Junio	r Year		
	Fall Semester	Credits		Spring Semester	Credits
ENG	331 Comm Engr & Tech	3	ECE	331 Principles of Elec. Engr. I	3
MAE	302 Engr Thermodynamics II	3	MAE	310 Heat Transfer Fundamentals	3
MAE	306 ME Lab II	1	MAE	316 Strength of Mech Comp	3
MAE	308 Fluid Mechanics	3	MSE	200 Mech. Prop. Engr. Materials	3
MAE	315 Dynamics of Machines	3	**E	*** Tech Elective ⁴	3
***	*** GEP Requirement*	3	***	*** GEP Requirement* (Inter Persp)	2-3
		Semester Total 16		Semester Total	16-17

	Senio	r Year		
Fall Semester	Credit.	S	Spring Semester	Credits
MAE 405 Controls Lab	1	**E	*** Tech Elective ⁴	3
MAE 435 Prin of Auto Control	3	MAE	416 ME Senior Design	4
MAE 4** Mech Engr Design Elective ⁵	3	***	*** GEP Requirement*	3
E * Tech Elective ⁴	3	***	*** Ethics (GEP Req*) ⁶	3
ISE 311 Engr Econ Analysis	3			
Semester	· Total 13			Semester Total 13

Major/Program requirements and footnotes:

¹Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must

University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses.

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours - must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

U.S. Diversity (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite

J. Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

Nuclear Engineering [14NEBS Req Term Spring 13]

		Fresh	man Yea	ır	
	Fall Semester	Credi	ts	Spring Semester	Credits
CH	101 Chemistry, A Molecular Science ¹	3	CSC	112 Intro to Computing - FORTRAN	3
CH	102 General Chemistry Lab ¹	1	MA	241 Calculus II ¹	4
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
E	115 Intro to Computing Environ ^{1,2}	1	PY	206 Physics for Engr & Sc I Lab ¹	1
ENG	101 Academic Writing and Research ^{1,2}	4	EC	205 Economics (or EC 201 or ARE201)*	3
MA	141 Calculus I ¹	4	***	*** GEP Requirement*	3
HESF	10* Fitness & Wellness Course*	1			
	Semester Too	tal 15		Semester Tota	ıl 17
		Sopho	more Ye	ar	
	Fall Semester	Credi	ts	Spring Semester	Credits
MAE	206 Engineering Statics	3	MAE	208 Engineering Dynamics	3
MA	242 Calculus III	4	MA	341 Appl Differential Eq	3
NE	201 Intro to Nuclear Engr	2	NE	202 Rad. Sources, Interact & Detect ²	4
PY	208 Physics for Engr & Sc II	3	***	*** GEP Requirement*	3
PY	209 Physics for Engr & Sc II Lab	1	***	*** GEP Requirement*	3
***	*** Advanced Communication Elect ³	3			
	Semester To	tal 16		Semester Tota	l 16
		Jun	ior Year		
	Fall Semester	Credi	ts	Spring Semester	Credits
MAE	301 Engr Thermo I	3	MAE	308 Fluid Mechanics	3
MA	401 Appl Diff Equations II	3	MSE	201 Struct Prop of Engr Mat	3
NE	301 Fund of Nuclear Engr ²	4	NE	400 Nuclear React Ener Conver	4
ISE	311 Engr Ec Analysis	3	NE	401 React Analysis & Des	4
***	*** GEP Requirement*	3	HES*	*** Health & Exercise Studies	1
	Semester To	tal 16		Semester Tota	ıl 15
			ior Year		
	Fall Semester	Credi		Spring Semester	Credits
NE	402 Reactor Engr	4	NE	405 Reactor Systems	3
NE	404 Rad Safety & Shielding	3	NE	408 Nucl Engr Des Proj	3
NE	406 Nuclear Engr Senior Design Prep	1	***	*** Engr Tech Elective ⁶	3
NE	*** NE Elective ⁴	3	***	*** GEP Requirement*	3
***	*** Tech Elective ⁵	3	***	*** GEP Requirement*	2-3
	Semester To			Semester Tota	
		N	Minimun	Total Credit Hours Required for Graduation	123

Major/Program requirements and footnotes:

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses.

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list .

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics. Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill

the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course) Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list. The following Co-Requisites must be satisfied to complete the General Education Program requirements:

I. <u>U.S. Diversity</u> (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

J. Global Knowledge (GK) Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP

course lists as meeting the Global Knowledge (GK) co-requisite. K. <u>Foreign Language proficiency</u> - Proficiency at the FL_102 level is required for graduation.

²Minimum grade of C-, E 115 requires satisfactory completion (S).

³Students must have a 2.5 GPA to enroll in this course

 $^{^4}$ Technical electives must be selected from the following list (when offered): MAE 320, MAE 403, MAE 406, MAE 407, MAE 408, MAE 410, MAE 42 MAE 426, MAE 430, MAE 442, MAE 472, MAE 495, MAE 496 (with permission of the instructor, limited to 3 credit hours), MAE 5** (with permission the instructor, 3.5 GPA), up to 3 hours outside of MAE with permission of MAE advisor.

⁵Choose one: MAE 412, 415, 485

⁶Select from IDS 201, STS 302, STS 304, STS(PHI) 325, PHI 214 or PHI 375.

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).

³Advanced Communication Elective: COM 110, COM 112, COM 211, ENG 288, ENG 289, ENG 316, ENG 331, ENG 332, ENG 333, FLA 201, FLA 202, FLF 201, FLF 202, FLJ 201, FLJ 202, FLJ 203, FLJ 204, FLR 201, FLR 202, FLS 201, FLS 202, GRK 201, GRK 202, LAT 201, LAT 202. If any of the listed courses are taken to satisfy this requirement, must take another course for any of the GEP requirements.

⁴Nuclear Engineering Electives: NE 409, NE 412, NE 418, NE 509, NE 512, NE 528.

Echnical Electives: BUS 370, 420; CSC 302; CH 315, 331; ECE 331, 421; MA 405, 427; MAE 301, 310, 316, 410, 421; MSE 301; PY 341, 411, 414, 415, 525, 528; ST 361, 371.

⁶Engineering Technical Electives: Any course from (2) or any College of Engineering course at the 300-level or above.

Paper Science & Engineering [15PSEBS Req Term Spring 013]

		Freshn	ıan Yeaı	r					
	Fall Semester	Credits	5		Spring Semester	Credits			
CH	101 Chemistry, A Molecular Science ¹	3	CH		Chemistry, A Quant Science ²	3			
CH	102 General Chemistry Lab ¹	1	CH		Quantitative Chemistry Lab ²	1			
E	101 Introduction to Engr & Prob Solv ^{1,2}	1	EC		Economics (or EC 201 or ARE 201)*	3			
E	115 Intro to Computing Environ ^{1,2}	1	MA		Calculus II ¹	4			
ENG	101 Academic Writing and Research ^{1,2}	4	PY		Physics Engr & Scientists I ¹	3			
MA	141 Calculus I ¹	4	PY		Physics for Engr & Sc I Lab ¹	1			
HESF	10* Fitness & Wellness Course*	1	PSE	201	Pulping & Papermaking Technology ²	3			
	Semester To	tal 15			Semester To	tal 18			
	Sophomore Year								
	Fall Semester	Credits	5		Spring Semester	Credits			
CH	221 Organic Chemistry I	3	CH		Organic Chemistry II	3			
CH	222 Organic Chemistry I Lab	1	CH		Organic Chemistry II Lab	1			
CHE	205 Chemical Proc Prin	4	PY		Physics Engr & Scientists II	3			
MA	242 Calculus III	4	PY	209	Physics for Engr & Sc II Lab	1			
PSE	212 Paper Properties ²	4	PSE		Pulping Process Analysis ²	3			
			***		Advised Electives ³	3			
			HES*	***	Health & Exercise Studies	1			
	Semester To	tal 16			Semester To	tal 15			
		Junio	r Year						
	Fall Semester	Credits	5		Spring Semester	Credits			
MAE		3	PSE		Wood & Pulping Chemistry	3			
***	*** Engineering Elective ⁴	3	PSE		Pulp & Paper Unit Proc. II	3			
PSE	211 Pulp & Paper Internship ⁵	1	***		Advised Electives ³	3			
PSE	322 Wet End/Polymer Chemistry	4	***	***	GEP Requirement*	3			
PSE	355 Pulp & Paper Unit Proc. I ²	3	***	***	GEP Requirement*	3			
***	*** GEP Requirement*	3							
	Semester To	tal 17			Semester To	tal 15			
		Senio	r Year						
	Fall Semester	Credits	S		Spring Semester	Credits			
PSE	415 Senior Research Projects	3	PSE	416	Project Design & Analysis	3			
PSE	417 Process Design & Analy. Lab	3	PSE	465	Paper Physics & Product Design	3			
PSE	425 Bioenergy & Biomaterials Engineering	3	PSE	472	Paper Process Analysis	3			
PSE	475 Process Control	3	***		Advised Electives ³	3			
***	*** GEP Requirement*	3	***	***	GEP IP Requirement*	2-3			
	-		***	***	GEP IP Requirement*	3			
	Semester To	tal 15			Semester To	tal 17-18			

128 **Minimum Total Credit Hours Required for Graduation**

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).
³Advised Electives: ACC 200, ACC 210, ACC 310, ACC 311, ACC 340, ACC 411, ARE 301, ARE 336, BAE 425, BBS 425, BCH 451, BUS 305, BUS 320, CH 315, CH 331, CH 401, CH 431, CH 437, CHE 225, CHE 311, CHE 312, CHE 315, CHE 316, EC 301, EC 302, EC 310, EC 336, ET 310, ET 410, ISE 311, MA 225, MA 303, MA 305, MA 325, MA 351, MA 401, MA 402, MA 403, MA 407, MA 408, MA 410, MA 421, MA 425, MA 426, MA 430, MIE 201, MIE 305, MIE 330, MIE 335, MSE 201, ST 311, ST 361, ST 370, ST 371, ST 431, ST 435

⁴Engineering Elective: AES 411, CE 214 or MAE 206, CHE 225, ECE 331, MSE 201, TE 200.

⁵There is one required internship in industry. PSE 211 should be taken the first semester upon returning from the internship.

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at http://oucc.ncsu.edu/gep-courses.

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours - must include one HESF 100-level course and one additional HES course)

Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following **Co-Requisites** must be satisfied to complete the General Education Program requirements:

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite.

Global Knowledge (GK)

Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation.

Textile Engineering [18TEBS Sub Plan TEPE Req Term Spring 13]

		Freshi	nan Year		
	Fall Semester	Credits		Spring Semester	Credits
CH	101 Chemistry, A Molecular Science	e^{1} 3	TE	105 TE: Materials & Systems ¹	2
CH	102 General Chemistry Lab ¹	1	TE	110 Comp Model Engr ²	3
E	101 Introduction to Engr & Prob So	$olv^{1,2}$ 1	MA	241 Calculus II ¹	4
E	115 Intro to Computing Environ ^{1,2}	1	PY	205 Physics for Engr & Sc I ¹	3
ENG	101 Academic Writing and Research	$h^{1,2}$ 4	PY	206 Physics for Engr & Sc I Lab ¹	1
MA	141 Calculus I ¹	4	***	*** GEP Requirement*	3
T	101 Intro to College of Textiles	2	HESF	1** Fitness & Wellness Course*	1
	Semes	ter Total 16		Semester Total	17
		Sophor	nore Yea	r	
	Fall Semester	Credits		Spring Semester	Credits
MA	242 Calculus III	4	MA	341 Appl Differential Eq	3
MAE	206 Engr Statics or		MSE	201 Struct & Prop of Engr Mat'ls	3
CE	214 Engr Statics ²	3	TE	201 Textile Engr. Sci.	4
PY	208 Physics for Engr & Sc II	3	TE	205 Analog & Digital Circuits	4
PY	209 Physics for Engr & Sc II Lab	1	EC	205 Economics* or	
TE	200 Polymer Sci & Engr	3	EC	201 Economics* or	
GC	120 Found of Graphics	3	ARE	201 Economics*	3
	Semes	ter Total 17		Semester Total	17
		Juni	or Year		
	Fall Semester	Credits		Spring Semester	Credits
TE	301 Engr Textile Structures I	3	TE	302 Textile Mfg Proc II	4
TE	303 Thermodynamics for TE	3	TE	404 Six Sigma Quality	3
MAE	314 Solid Mechanics <i>or</i>		TE	424 Tex Engr Qual Impr Lab	1
CE	313 Mech of Solids	3	PCC	301 Tech of Dyeing & Finish	4
***	*** GEP Requirement*	3	***	*** GEP Requirement*	3
ST	370 Prob & Stat for Engr	3	HES	*** Health & Exercise Studies	1
	Semes	ter Total 15		Semester Total	16
		Seni	or Year		
	Fall Semester	Credits		Spring Semester	Credits
TE	401 Textile Engr Des I	4	TE	402 Textile Engr Des II	4
TE	463 Polymer Engineering	3	***	*** Concentration Elective ³	3
***	*** Concentration Elective ³	3	***	*** Concentration Elective ³	3
***	*** GEP Requirement*	3	***	*** GEP IP Requirement*	2-3
***	*** GEP Requirement*	3			
	Semes	ter Total 16		Semester Total	12-13
		Mi	nimum To	otal Credit Hours Required for Graduation	126

Major/Program requirements and footnotes:

Courses required for Change of Degree Audit (CODA). CH 101, 102; MA 141, 241; PY 205, 206 must be completed with C or higher.

²Grade of C- or better required, E 115 requires satisfactory completion (S).

Machine Design: MAE 208, TE/CHE 435, and one other elective with an MAE or TE prefix (selected with the approval of advisor). In addition, student in this concentration should take MAE 301 instead of TE 303, and MAE 206 for Statics.

Medical Textiles: TE(BME) 466, TE(BME) 467, TE(TMS) 565, TE(BME) 566. In addition, students in this concentration should have one year of biology or BIO 183 and take MSE(BME) 203 instead of MSE 201.

Materials Science and Engineering: MSE 350 & 450, and one other elective with an MSE or TE prefix (selected with the approval of advisor). In addition, students in this concentration may take MSE 301 instead of TE 303.

*General Education Program (GEP) requirements and GEP Footnotes:

To complete the requirements for graduation and the General Education Program, the following category credit hours and co-requisites must be satisfied. University approved GEP course lists for each of the following categories can be found at

http://oucc.ncsu.edu/gep-courses.

Humanities (6 credit hours selected from two different disciplines/course prefixes)

Choose from the University approved GEP Humanities course list.

Social Sciences (6 credit hours selected from two different disciplines/course prefixes)

Choose 3 credits from the University approved GEP Social Sciences course list in a discipline other than Economics.

Economics 205 (or EC 201 or ARE 201), taken as part of the Major requirements, satisfies 3 credit hours needed to fulfill the GEP Social Sciences requirement.

Health and Exercise Studies (2 credit hours – must include one HESF 100-level course and one additional HES course) Choose from the University approved GEP Health and Exercise Studies course list.

Additional Breadth - (3 credit hours to be selected from the following University approved GEP course lists)

Choose from the Humanities/Social Sciences/Visual and Performing Arts

<u>Interdisciplinary Perspectives</u> (5-6 credit hours)

Choose from the University approved GEP Interdisciplinary Perspectives course list.

The following Co-Requisites must be satisfied to complete the General Education Program requirements:

U.S. Diversity (USD)

Choose from the University approved GEP U.S. Diversity course list or choose a course identified on the approved GEP course lists as meeting the U.S. Diversity (USD) co-requisite

J. Global Knowledge (GK) Choose from the University approved GEP Global Knowledge course list or choose a course identified on the approved GEP course lists as meeting the Global Knowledge (GK) co-requisite.

K. Foreign Language proficiency - Proficiency at the FL_102 level is required for graduation

³Three Concentration Electives should be chosen from one of the following:



General Education Program (GEP) Requirements in the *Humanities, Social Sciences, Visual & Performing Arts, and Interdisciplinary Perspectives*

A total of **seven courses** (21 credit hours) from the appropriate GEP category list is required. These courses may be taken in any order. All of the courses must be completed for a letter grade; none of the seven courses may be taken as pass / fail or credit only grading.

Some courses will have a USD or GK indicator. The USD or GK code identifies a course that will not only fulfill the specific GEP category in which it is listed but will also satisfy either the U.S. Diversity (USD) or Global Knowledge (GK) GEP co-requisites. Courses which will satisfy *only the co-requisite* are indicated as *co-req* only.

The General Education Program (GEP) for undergraduates at N.C. State took effect Summer II, 2009. The GEP applies to students who entered NC State Summer II, 2009 and later. Students entering prior to Summer II 2009 must satisfy the general education requirements (GEP or GER) as specified by their degree plan.

Students should consider the GEP web site the <u>authoritative source</u> for approved courses and requirements. This document is provided merely as a planning tool. See http://oucc.ncsu.edu/gep-reqs

Humanities	
http://oucc.ncsu.edu/gep-humanities Select two courses from different disciplines.	
On sid Maio Deminutary	
Special Major Requirements: ME & AE majors may select PHI 214, PHI(STS)325, or PHI 375 to fulfill Ethics requirement OR see Interdisciplinary Perspectives	
requirements MSE majors may select PHI 214, PHI 221, PHI(STS)325 or PHI 375 to fulfill Ethics requirement OR see Interdisciplinary Perspectives requirements	
Social Sciences	
http://oucc.ncsu.edu/gep-soc-sciences	
Select an Introductory Economics course (EC 205/EC 201/ARE 201).	
Select one course from Social Sciences other than Economics.	
Special Major Requirements:	
CEM majors select SOC 205, SOC 301, SOC 305/AFS 305 (USD), SOC 310, PS 202, PS 310, PS 312, PS 314, PS 320, LPS 315 ENE majors select PS 336 (GK) or PS 320.	
Interdisciplinary Perspectives	
http://oucc.ncsu.edu/gep-ip-course	
Select two courses.	
Special Major Requirements	
BE majors select IDS 201 (GK) or STS 302(GK), STS 304	
IE majors select IDS 201 (GK), IDS(NR) 303 or STS 214, STS 302(GK), STS 304, STS 322, STS(PHI) 325	
AE & ME majors select IDS (GK), STS 302(GK), STS 304, or STS(PHI) 325 to fulfill Ethics requirement OR see Humanities Requirements MSE majors select IDS 201 (GK), STS 302 (GK), STS 304, STS 325 to fulfill Ethics requirement OR see Humanities Requirements	
Additional Breadth	
http://oucc.ncsu.edu/gep-humanities	
http://oucc.ncsu.edu/gep-soc-sciences	
http://oucc.ncsu.edu/gep-vpa	
Select one course from Humanities, Social Sciences, or Visual & Performing Arts.	
The following requirements must also be met:	
US Diversity (USD) Course from selections above or select an additional course. http://oucc.ncsu.edu/gep-usd-course	
Global Knowledge (GK) Course from selections above or select an additional course. http://oucc.ncsu.edu/gep-gk-course	

					HUMANITIES			
GK	AFS 240	Afr Civilization	GK	FLG 315	Germanic Civilization & Cult		HI 451	The Vietnam War
	AFS 241	Intro to Afr-Am Studies II		FLG 320	Intro to German Literature		HI 452	Recent America
	AFS/ENG 248 AFS/HI 275	Surv of Afr-Am Lit Intro to Hist of South & East Africa		FLG 323 FLG 325	20th Cent German Lit	USD	HI 453 HI 454	US-Latin Am Relations Since 1823
	AFS/HI 276	Intro to Hist of South & East Africa		FLG 325 FLI 318	German Lyric Poetry Italian Society Through the Cinema		HI 456	Hist of US Foreign Rel, 1900-Present Early Am Thought
	AFS 342	Intro to the Afr Diaspora		FLJ 342	Classic Japanese Lit in Trans		HI 457	20th-Cent U.S. Intellectual Hist
	AFS 343	African Religions		FLJ 344	Early Modern Japanese Lit in Trans		HI 458	Modern Am Historical Biography
	AFS 344	Leadership in Afr Am Communties		FLJ 345	Modern Japanese Lit in Trans		HI 459	The Early Am Republic
	AFS/ARS 346 AFS/ENG 349	Black Popular Cult Afr Lit in English		FLN 301 FLN 302	Advanced Hindi: Readings in Lit I Advanced Hindi: Readings in Lit II	HSD	HI 461 HI 462	Civilization of the Old South Social Hist of the New South
	AFS/HI 372	Afr-Am Hist Thr the Civil War, 1619-1865		FLN 401	Hindi Lit & South Asian Cult Contexts		HI 465	Oil & Crisis in the Gulf
	AFS/HI 373	Afr-Am Hist Since 1865		FLR 303	Russian Lit in Trans: The 19th Cent	GK	HI 466	Hist of the Palestinian-Israeli Conflict
	AFS 442	Issues in the Afr Diaspora		FLR 304	Russian Lit in Trans: The 20th Cent		HI 467	Modern Mexico
	AFS/ENG 448 AFS/HI 455	Afr-Am Lit Hist of the Civil Rights Movement		FLR 318 FLS 340	Russian Cinema and Society Intro to Hisp Lit and Cult		HI 469 HI 471	Latin Am Revolutions in the 20th Cent Revolutionary China
	AFS/HI 475	Hist of the Republic of South Africa		FLS 341	Lit and Cult of Spain I		HI 473	Japan's Empire in Asia 1868-1945
	AFS/HI 476	Leadership in Modern Africa		FLS 342	Lit and Cult of Spain II		HI 474	Modern India
	AFS/HI 479	Africa (sub-Saharan) in the 20th Cent		FLS 343	Lit and Cult of Spain III		HI 477	Women in the Middle East
GK	ANT/FLJ 351 ARC 242	Contemporary Culture in Japan Hist of West Architecture		FLS 351 FLS 352	Lit and Cult of Latin America I Lit and Cult of Latin America II		HI 478 HI 486	Islam & Christianity in Sub-Saharan Africa Science and Empire
GK	CLA 210	Classical Mythology		FLS 353	Lit and Cult of Latin America III	0.1	HON 202	Inquiry, Discovery, & Lit
	CLA 215	Ancient World in Modern Media	GK	HA/HI 240	Introduction to Visual Culture		HON 290	Special Topics - Hist
	CLA 320	Masterpieces of Classical Literature	014	HI 205	West Civilization Since 1400		HON 293	Special Topics - Lit
GK	CLA 325 COM 200	Gender, Ethnicity & Identity Comm Media in a Changing World		HI 207 HI 208	Ancient Mediterranean World The Middle Ages		HON 294 HON 341	Special Topics - Philosophy or Rel Time Travel
	COM 211	Argumentation & Advocacy		HI 209	Europe, Renaiss to Waterloo, 1300-1815	GK	HON 342	Issues in Contemporary Rel
	COM/ENG 395	Studies in Rhetoric & Digital Media	GK	HI 210	Modern Europe 1815-Present		HON 344	Kantian Ethics
USD	ECD 225	Foundations of Cultural Competence		HI 214	Hist & Archaeology of Anc Lat America		HON 345	On the Human
	ENG 201 ENG 206	Writing Literary Analysis Studies In Drama		HI 215 HI 216	Latin America to 1826 Latin America Since 1826	USD	HON 346 HON 347	Ethics & Gender Freedom & the Self
	ENG 207	Studies in Poetry		HI 221	British Hist to 1688		LAR 221	Intro to Environ & Behav for Designers
	ENG 208	Studies In Fiction		HI 222	Hist of British Cults & Societies		PHI 205	Intro to Philosophy
OK	ENG 209	Intro to Shakespeare		HI 232	The World from 1200-1750		PHI 210	Representation, Reason & Reality
	ENG/FL 219 ENG/FL 220	Studies in Great Works of Non-West Lit Studies in Great Works of West Lit	GK	HI 233 HI 251	The World in the 20th Cent Early Am Hist		PHI 214 PHI 221	Issues in Business Ethics Contemporary Moral Issues
	ENG/FL 221	Lit of the West World I		HI 252	Modern Am Hist		PHI 300	Ancient Philosophy
	ENG/FL 222	Lit of the West World II		HI 254	Modern Am Hist		PHI 301	Early Modern Philosophy
	ENG/FL 223	Contemporary World Lit I		HI 263	Asian Civilization to 1800		PHI 302	19th Cent Philosophy
GK	ENG/FL 224 ENG 232	Contemporary World Lit II Lit & Medicine		HI 264 HI 270	Modern Asia: 1800 to Present* Modern Middle East		PHI 305 PHI 309	Philosophy of Rel Contemporary Political Philosophy
	ENG 233	The Lit of Agriculture		HI 307	Jewish History		PHI 310	Existentialism
	ENG/FL 246	Lit of the Holocaust		HI/REL 320	Religion in American History		PHI 312	Philosophy of Law
USD	ENG 249	Native Am Lit		HI 324	History of Common Law & Constitution		PHI 313	Ethical Problems in Law
	ENG 251 ENG 252	Major British Writers Major Am Writers	GK	HI 332 HI 335	Germany and the World Wars The World at War		PHI/STS 325 PHI 330	Bio-Medical Ethics Metaphysics
	ENG 261	English Lit I	GK	HI 338	Empire, War, and Revolution in Russia		PHI 331	Philosophy of Language
	ENG 262	English Lit II	USD	HI 346	Intro to Civil War and Reconstruction		PHI 332	Philosophy of Psychology
	ENG 265	Am Lit I		HI 350	Am Military Hist		PHI 333	Theory of Knowledge
	ENG 266 ENG 267	Am Lit II LGBTQI - Literature in the U.S.	LISD	HI 351 HI 360	U.S. Naval Hist U.S. Agricultural History		PHI 340 PHI 375	Philosophy of Science Ethics
OOD	ENG 283	Intro to Am Folklore	OOD	HI 364	Hist of North Carolina		PHI 376	Hist of Ethics
USD	ENG/WGS 305	Women and Literature		HI 365	The Am West		PHI 401	Kant's Critique of Pure Reason
	ENG 362 ENG 368	The British Novel of the 18th Cent		HI 366	Native Am Hist		PHI 420	Global Justice
	ENG 369	Am Poetry to 1900 The Am Novel of the 19th Cent		HI 370 HI 371	Modern Egypt Modern Japan, 1850 to Present		PHI 440	Intro to Cognitive Science The Scientific Method
	ENG 370	Early 20th-Cent Fiction		HI 374	Visual Culture of Modern South Asia		PHI 447	Philosophy, Evolution and Human Nature
	ENG 371	Late 20th-Cent Fiction		HI 380	Hist of Nonprofits, Philant, & Soc Change		PS 361	Intro to Political Theory
	ENG 372	Early 20th-Cent Poetry Late 20th-Cent Poetry	GK	HI 381 HI 400	NGO Nonprofits in a Global Context	CK	PS 362	Am Political Thought Intro to the Study of Rel
	ENG 373 ENG 377	Fantasy	GK	HI/REL 402	Civilization of the Ancient Near East Early Christianity to Time of Eusebius		REL 200 REL 210	Religious Traditions of the World
GK	ENG 380	Modern Drama		HI 403	Ancient Greek Civilization		REL 230	Asian Religions
	ENG 385	Biblical Backgrounds of English Lit		HI 404	Rome to 337 A. D.	.		Rel & Society
GK	ENG 390 ENG/FL 392	Classical Backgrounds of English Lit Major World Author		HI 405 HI 406	Hist & Archaeology of the Roman Empire From Roman Empire to Middle Ages		REL 311 REL 312	Intro to the Old Testament Intro to the New Testament
	ENG/FL 393	Studies in Literary Genre	GK	HI/REL 407	Islamic Hist to 1798		REL 314	Intro to the New Testament Intro to Intertestamental Lit
	ENG/FL 394	Studies in World Literature	GK	HI/REL 408	Islam in the Modern World	GK	REL 317	Christianity
	ENG 398	Contemporary Lit II (1900 to 1940)	OK	HI 409	The High Middle Ages		REL 323	Rel Cults, Sects, & Min Faiths in America
	ENG 399 ENG/FL 406	Contemporary Lit II (1940 to Present) Modernism		HI 410 HI 411	Italian Renaissance The Prot & Cath Reform of the 16th Cent	GK GK	REL 327 REL 331	Issues in Contemporary Rel The Hindu Tradition
	ENG/FL 407	Postmodernism		HI 412	The Sexes & Soc in Early-Modern Europe		REL 332	The Buddhist Traditions
	ENG 420	Major Am Author		HI 414	France in the Old Regime		REL 333	Chinese Rels
	ENG 439	17th-Cent English Lit		HI 415	The French Revolution		REL 334	Japanese Rels
	ENG 449 ENG 451	16th-Cent English Lit. Chaucer		HI 418 HI 419	Fascist Italy & Nazi Germany Modern European Imperialism		REL 340 REL 350	Intro to Islam Intro to Judaism
	ENG 460	Major British Author		HI 420	European Diplomatic Hist		REL 383	Rel, Globalism, & Justice
	ENG 464	British Lit, 1900-1945		HI 421	European Intellectual Hist: The 18th Cent	GK	REL/HI 402	Early Christianity to Time of Eusebius
	ENG 465	British Lit, Since 1945		HI 422	European Intellectual Hist: The 19th Cent	GK	REL 412	Adv Readings in the Christian Gospels
	ENG 467 ENG 468	Am Colonial Lit Am Romantics		HI 423 HI 425	Women in European Enlightenment Tudor & Stuart England		REL 413 REL 423	The Life & Letters of the Apostle Paul Religion & Politics in America
	ENG 469	Am Realism & Naturalism		HI 429	20th Cent Britain	JJD		Darwinism and Christianity
	ENG 470	Am Lit, 1914-1945	GK	HI 430	Modern France		REL/WGS 47	Women & Rel
Hee	ENG 471	Am Lit, Since 1945	GK	HI 435	Europe Since 1945		REL 482	Rel & Conflict
บรบ	ENG 476 ENG 486	Southern Lit Shakespeare, The Earlier Plays		HI 441 HI 443	Colonial & Revolutionary U.S. U. S. Constitutional Hist		REL 489 WGS/ENG 30	Interpretations of Rel
	ENG 487	Shakespeare, The Latter Plays		HI 444	U. S. Constitutional Hist Since 1870		WGS/LNG 30	Theor Iss in Women's & Gender Studies
	FLC 351	Modern Chinese Pop Culture		HI 445	Early Am Frontiers			
	FLF 301	Surv of Fr Lit -Mid Ages Thr the Enlight		HI 446	Civil War & Reconstruction			
	FLF 302 FLF 315	Surv of Fr Lit-Rom to the Contemp Period French Civilization & Cult		HI/WGS 447 HI/WGS 448	Hist of Am Women to 1900 Am Women in the 20th Cent			
	FLF 414	Studies in French Prose				The	current Univer	sity-approved list is available at:

GK FLF 414

Studies in French Prose

Lit, Cinema & Cult of the Franco World

The current University-approved list is available at: http://oucc.ncsu.edu/gep-humanities Retrieved 6.12.2015

SOCIAL	SCIENCES
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					JUIAL SCIENCES			
USD	AFS/SOC 305	Racial & Ethnic Relations		GEO 200	Principles of Geography		PS 331	U.S. Foreign Policy
	ANT 251	Physical Anthropology	GK	GEO/SOC 220	Cultural Geography	GK	PS 335	Int'l Law
GK	ANT 252	Cultural Anthropology		HON 295	Special Topics - Social Sciences	GK	PS 336	Global Env Pol
GK	ANT 253	Unearthing the Past	USD	HON 352	Self, Schooling, & the Social Order	GK	PS 341	European Pol
	ANT 254	Lang & Culture		HON 353	Code Breakers: Unlocking Hum Lang		PS 342	Pol of China & Japan
		•	GK					•
	ANT/SOC 261	Tech in Soc & Culture		NR 460	Renewable Resource Pol and Mgt	GK	PS 345	Govs & Pol in the Middle East
	ANT 310	Native Peoples & Cultures of N America		NS 210	Leadership & Management		PSY 200	Intro to Psych
GK	ANT 315	Aztecs, Maya & Their Predecessors		PRT 152	Intro to Parks, Rec & Tourism		PSY 201	Controversial Issues in Psych
GK	ANT 325	Andean South America		PRT 200	Leisure Behavior, Health & Wellness		PSY 311	Social Psych
	ANT 330	Peoples & Cultures of Africa		PS 201	Amer Pol & Gov		PSY 376	Developmental Psych
						LIOD		
GK	ANT 346	Peoples & Cultures of Southeast Asia		PS 202	State & Local Gov	บรม		Psych of Gender
	ANT 370	Intro to Forensic Anthropology		PS 203	Intro to Nonprofits		SOC 202	Principles of Soc
	ANT 385	Island Archaeology		PS 204	Problems of Amer Democracy	USD	SOC 203	Current Social Problems
	ANT 389	Fundamentals of Archaeological Res		PS 205	Law & Justice	USD	SOC/WGS 204	Sociology of Family
	ARE 201	Intro to Agricultural & Resource Econ	GK	PS 231	Intro to Int'l Relations		SOC 205	Jobs & Work
					Issues in Global Pol		SOC 206	
	ARE 309	Env Law & Economic Policy		PS 236				Social Deviance
	ARE 311	Agricultural Markets	GK	PS 241	Intro to Comparative Pol	GK		Cultural Geography
	ARE 433	U.S Agricultural Policy		PS 301	The Presidency & Congress		SOC 241	Soc of Agriculture & Rural Soc
				PS 302	Campaigns & Elect in the US Pol Sys		SOC 300	Social Research Methods
	AS 321	Air Force Leadership Studies I	HSD	PS 303	Race in U.S. Pol		SOC 301	Human Behavior
			OOD			LICD		
	COM 112	Interpersonal Comm		PS 305	Justice Sys in the Amer Pol Proc			Women and Men in Society
GK, USD	COM/HSS 392	Int'l & Crosscultural Comm		PS/WGS 306	Gender & Pol in the U. S.	USD		Racial and Ethnic Relations
	EC 201	Principles of MicroEcon	USD	PS 309	Equality & Justice in US Law		SOC 306	Criminology
	EC 202	Principles of MacroEcon		PS 310	Public Policy		SOC/REL 309	Religion and Society
	EC 205	Fundamentals of Econ		PS 312	Intro to Public Administration		SOC 310	Managers, Work, & Organizations
	EC 301	Intermediate Microeconomics		PS 314	Science, Tech & Public Policy		SOC 311	Community Relationships
	EC 301	intermediate Microeconomics			· · · · · · · · · · · · · · · · · · ·			
				PS 315	Public Leadership	GK	SOC 342	Int'l Development
	EDP 304	Educational Psych		PS 320	U.S. Env Law & Pol		SOC 350	Food and Society
	EDP 370	Applied Child Development				GK	SOC 351	Population & Planning
	ENG 210	Intro to Lang & Linguistics		The current Un	iversity-approved list is available at:			ep-soc-sciences Retrieved 6.12.2015
		to Lang a Linguistico			, ,,	p.//		
				VISUAL	& PERFORMING ARTS			
	ADAL	- B	٠				110.0:5	
	ADN 111	Two Dimensional Design	GK	ENG 282	Intro to Film		HS 242	Intro to Small Scale Landscape Design
	ADN 112	Three Dimensional Design		ENG 292	Writing About Film		LAR 444	Hist of Landscape Architecture
	ADN 272	Intro to Printing & Surface Des	GK	ENG/FLM 378	Women & Film		MUS 103	Music Theory I
CV	ADN 275	Survey of Fibers in Arts & Design	٠.٠	ENG 382	Film & Lit		MUS 120	Rudiments of Music
GK		•						
	ADN 311	Basic Visual Laboratories		ENG 384	Introduction to Film Theory		MUS 180	Intro to Musical Experiences
USD	AFS/MUS 230	Intoduction to African-Amer Mus	GK	FL 216	Art & Soc in France		MUS 181	Exploring Music Theory
USD	AFS/MUS 260	Hist of Jazz	GK	FLF 318	The Heritage of French Cinema	GK	MUS 200	Understanding Mus
	ARC 140	Experiencing Architecture	GK	FLG 318	New German Cinema	GK	MUS 201	Intro to Mus Lit I
	ARC 241	Intro to World Architecture		FLS 360	Hispanic Cinema		MUS 202	Intro to Mus Lit II
CK			Oit		-	Oit		
	ARS 251	The Arts of a World Capital: London		FTM 400	Major Fashion Designers		MUS 205	Intro to Mus in Western Soc
GK	ARS 252	Vienna in 1900		GC 120	Foundations of Graphics	USD	MUS 206	America's Mus
	ARS 259	The Arts & Politics		GD 203	Hist of Graphic Des		MUS 305	Mus Composition
	ARS/MUS 306	Mus Composition with Computers		GD 303	Graphic Des Theory & Practice	GK	MUS 310	Mus of the 17th & 18th Centuries
	ARS 351	Arts, Ideas & Values		HA 201	Hist of Art Anc Greece Thr the Renaiss		MUS 315	Mus of 19th Cent Europe
CK								
	ARS 353	Arts & Cross Cultural Contacts		HA 202	Hist of Art Renaiss Thr the 20th Cent		MUS 320	Mus of the Twentieth Cent
GK	ARS 354	The Arts & the Sacred		HA 203	Hist of Amer Art		MUS 330	Mus Drama
	COM 110	Public Speaking		HA 401	19th Cent European Art	GK	MUS 350	World Mus I: Mus of Asia
GK	COM/ENG 364	Hist of Film to 1940		HA 404	Italian Renaissance Art & Matl Cult	USD	MUS/WGS 360	Women in Mus
	COM/ENG 374	Hist of Film From 1940		HA 410	Hist of Art & Photography			The Art & Craft of Clay
OIX				HON 299	0 . ,		THE 103	,
	D 231	Des Hist for Engineers & Scientists			Special Topics - Visual & Performing Arts			Intro to the Theatre
	DAN 272	Dance Composition		HON 391	Mus & Social Life		THE 203	Theory & Practice of Acting
	DS 101	Hist of Des I	The o	current Universi	ty-approved list is available at:	http://	/oucc.ncsu.edu/g	ep-vpa Retrieved 6.12.2015
			JI	NTERDISC	IPLINARY PERSPECTIVES		_	
	AEE/ANS/PB 208	8 Ag Biotech: Issues & Implications	GK	HA/HI 240	Introduction to Visual Culture		PHI 210	Representation, Reason & Reality
GK	ANT/SOC 261	Technology in Society & Culture		HI 321	Ancient & Medieval Science		PHI 312	Philosophy of Law
	ARE/EC 336	Intro to Resource & Env Econ		HI 322	Rise of Modern Science		PHI 313	Ethical Problems in Law
	ARS/STS 257	Tech in the Arts		HI 341	Tech in Hist		PHI/STS 325	Bio-Medical Ethics: Inter Inquiry
				HI 440				Philosophy of Language
	BIO 165	Intro to Environmental Res			Amer Env Hist		PHI 331	. ,
	BIO 227	Biological Illustration		HI 480	Scientific Revolution: 1300-1700		PHI 332	Philosophy of Psychology
	BIO 233	Human-Animal Interactions		HI 481	Hist of the Life Sciences		PHI 340	Philosophy of Science
GK	BIO 380	Water Resources		HI 482	Darwinism in Science & Soc	USD	PHI 422	Philosophical Issues in Env Ethics
	BIO 440	Human Animal: Evol Perspective	GK	HI 483	Science & Religion in European Hist	- '		Into to Cognitive Science
	BIT 100	Current Topics in Biotechnology		HI 484	Science in European Culture		PHI 440	The Scientific Method
OI.			GIV					
	CS 224	Seed, Biotechnology & Societies		HI 485	Hist of Amer Tech		PHI 447	Philosophy, Evolution and Human Nature
GK	CS 230	Introduction to Agroecology		HON 296	Sp Top -H/SS/VPA Persp		PO 411	Agrosecurity
	CSC 281	Found of Interactive Game Design		HON 297	Sp Top- Math/Nat Sci Perspective		PP 241	The Worm's Tale: Parasites in our Midst
	D 100	Design Thinking I	USD	HON 310	The Creative Process in Science	GK	PRT 449	Human Dimensions of NR in AU/NZ
	D 101	Design Thinking II		HON 311	Words Through Space & Time	GK	PRT 450	Sustaining Nat. Resources in AU/NZ
	El 201	Expl Interdisc. Entrepre Thinking		HON 341	Time Travel	•	PSE 220	Papyrus to Plasma Screens: Paper & Soc
	El 331	Interdisc Entrep. Thinking I		HON 345	On the Human		REL/STS 471	Darwinism and Christianity
	EMA 365	Foundations in Arts Entrepreneurship	USD	HON 346	Ethics & Gender		SLC 250	Critical & Creative Decision Making Models
	EMA 370	Practical Arts Entrepreneurship		HON 347	Freedom & the Self		SMT 201	Sustainable Materials for Green Housing
	ENG 232	Lit & Medicine		HSS 120	Intro Humanities & Social Sci		SMT 230	Sustainability, Global Trade & For Products
	ENG 376	Science Fiction		ID 444	History of Industrial Design		SMT 231	Sustainable Manufacturing
	ENG 425	Analysis of Sci & Tech Writing	CK	IDS 201	Env Ethics		SMT 232	Recycling to Create a Sustainable Environ
CV								
	ENT 207	Insects and Human Disease	OSD	IDS 210	Intro to America Studies		SMT 310	Intro to Industrial Ecology
GK		Intro to Environmental Science		IDS 211	Eating through Amer Hist		SOC 381	Soc of Medicine
GK	ES 200	Climate Change & Sustainability		IDS/NR 303	Humans & the Environment		SSC 185	Land & Life
GK	ES 300	Energy & the Environment	GK	IDS 310	Animals in the Global Community	USD		Women & Gender in Science & Tech
	ET 410	Toxic Substance & Soc		-			STS 214	Tech & Values
CV			CV	18 200	Intro to International Studios			
	FLF 212	French: Lang, Culture & Tech	GK	IS 200	Intro to International Studies	0	STS 301	Science & Civilization
	FLG 212	German Lang, Culture, Science & Tech		LSC 101	Crit & Creative Thinking in Life Sci	GK	STS 302	Contemp Sci, Tech & Human Values
GK	FLG 440	Green Germany: Nat & Envin	GK	MEA 100	Earth Systems Science: Exp the Conn		STS 304	Ethical Dimensions of Progress
GK	FLS 212	Spanish, Lang, Tech, Culture		MIE 201	Intro to Business Processes		STS 322	Technological Catastrophes
	FOR 220	Urban & Community Forestry		NR 406	Conservation of Biological Diversity	GK	STS 323	World Population & Food Prospects
OI.						OI.		
GK	FOR/FW 221	Conservation of Natural Resources		PB 213	Plants in Civilization		STS 402	Peace & War in the Nuclear Age
	FOR 248	Forest Hist, Tech & Soc		PB 219	Plants in Folklore, Myth, and Religion		STS 405	Tech & Amer Culture
	FOR 330	North Carolina Forests		PCC 274	Introduction to Forensic Science	USD	SW 260	Intro to Gerontology
GK	FOR 414	World Forestry		PCC 401	Manuf & Impact on Safety, the Envir, & Soc		WGS 224	Issues in Ecofeminism
		•	The		ty-approved list is available at:		WGS 330	Women and Health
							WGS 330	Adv Studies of Gender in Science
			nup://	oucc.ncsu.eau/g	gep-ip-course Retrieved 6.12.2015		vv G3 3/U	Auv Staties of Gentier III Science

GLOBAL KNOWLEDGE (GK)

	Humanities		Humanities (cont'd)		
AFS 240	Afr Civilization	HI 307	Jewish History	PS 231	Introduction to International Relations
AFS/HI 275	Intro to Hist of South & East Africa	HI 324	History of Common Law & Constitution	PS 236	Issues in Global Politics
AFS/HI 276	Intro to Hist of West Africa	HI 332	Germany and the World Wars	PS 241	Introduction to Comparative Politics
AFS 342	Intro to African Diaspora	HI 338	Empire, War, and Revolution in Russia	PS 335	International Law
AFS 343	African Religions	HI 370	Modern Egypt	PS 336	Global Environmental Politics
AFS/ENG 349	African Literature in English	HI 371	Modern Japan, 1850 to Present	PS 341	European Politics
AFS 442	Issues in the Afr Diaspora	HI 374	Visual Culture of Modern South Asia	PS 342	Politics of China and Japan
AFS/HI 475	Hist of the Republic of South Africa	HI 381	NGO Nonprofits in a Global Context	PS 345	Govs & Pol in the Middle East
AFS/HI 476	Leadership in Modern Africa	HI 410	Italian Renaissance	SOC 342	International Development
AFS/HI 479	Africa (sub-Saharan) in the 20th Cent	HI 411	The Prot & Cath Reform of the 16th Cent	SOC 351	Population and Planning
ANT/FLJ 351	Contemporary Culture in Japan	HI 412	The Sexes & Soc in Early-Modern Europe		
CLA 210	Classical Mythology	HI 414	France in the Old Regime		
CLA 215	Ancient World in Modern Media	HI 415	The French Revolution		Visual & Performing Arts
CLA 320	Masterpieces of Classical Literature	HI 418	Fascist Italy & Nazi Germany	ADN 275	Survey of Fibers in Arts & Design
CLA 325	Gender, Ethnicity & Identtity	HI 419	Modern European Imperialism	ARS 251	The Arts of a World Capital: London
ENG 380	Modern Drama	HI 420	European Diplomatic Hist	ARS 252	Vienna in 1900
ENG 398	Contemporary Lit I (1900 to 1940)	HI 421	European Intellectual Hist: The 18th Cent	ARS 353	Arts and Cross Cultural Contacts
ENG 399	Contemporary Lit II (1940 to Present)	HI 422	European Intellectual Hist: The 19th Cent	ARS 354	The Arts and the Sacred
ENG/FL 219	Studies in Great Works of Non-West Lit	HI 423	Women in European Enlightenment	COM/ENG 364	History of Film to 1940
ENG/FL 220	Studies in Great Works of West Lit	HI 425	Tudor & Stuart Engl&	COM/ENG 374	History of Film From 1940
ENG/FL 221	Lit of the West World I	HI 429	20th Cent Britain	ENG 282	Introduction to Film
ENG/FL 222	Lit of the West World II	HI 430	Modern France	ENG/FLM 378	Women & Film
ENG/FL 223	Contemporary World Lit I	HI 435	Europe Since 1945	FL 216	Art and Society in France
ENG/FL 224	Contemporary World Lit II	HI 465	Oil & Crisis in the Gulf	FLF 318	The Heritage of French Cinema
ENG/FL 246	Literature of the Holocaust	HI 466	Hist of the Palestinian-Israeli Conflict	FLG 318	New German Cinema
ENG/FL 392	Major World Author	HI 467	Modern Mexico	FLS 360	Hispanic Cinema
ENG/FL 393	Studies in Literary Genre	HI 469	Latin Am Revolutions in the 20th Cent	MUS 200	Understanding Music: Global Perpectives
ENG/FL 394	Studies in World Lit	HI 471	Revolutionary China	MUS 201	Introduction to Music Literature I
ENG/FL 406	Modernism	HI 473	Japan's Empire in Asia 1868-1945	MUS 202	Introduction to Music Literature II
ENG/FL 407	Postmodernism	HI 474	Modern India	MUS 310	Music of the 17th and 18th Centuries
FLC 351	Modern Chinese Pop Culture	HI 477	Women in the Middle East	MUS 315	Music of 19th Century Europe
FLF 301	Surv of Fr Lit -Mid Ages Thr the Enlight	HI 478	Islam & Christianity in Sub-Saharan Africa	MUS 320	Music of the Twentieth Century
FLF 302	Surv of Fr Lit-Rom to the Contemp Period	HI 486	Science and Empire	MUS 330	Music Drama
FLF 315	French Civilization & Cult	HI/REL 402	Early Christianity to Time of Eusebius	MUS 350	World Music I: Music of Asia
FLF 414	Studies in French Prose	HI/REL 407	Islamic Hist to 1798		
FLF 425	Lit, Cinema & Cult of the Franco World	HI/REL 408	Islam in the Modern World		
FLG 315	Germanic Civilization & Cult	HON 342	Issues in Contemporary Religion		Interdisciplinary Perspectives
FLG 320	Intro to German Literature	REL 200	Intro to the Study of Rel	ANT/SOC 261	Technology in Society and Culture
FLG 323	20th Cent German Lit	REL 210	Religious Traditions of the World	BIO 380	Water Resources
FLG 325	German Lyric Poetry	REL 230	South Asian Religious Traditions	CS 224	Seeds, Biotechnology & Societies

Intro to the Old Testament

Intro to the New Testament

Intro to Intertestamental Lit

Issues in Contemporary Rel

The Hindu Tradition

The Buddhist Traditions

Rel, Globalism, & Justice

Adv Readings in the Christian Gospels

The Life & Letters of the Apostle Paul

Social Sciences

Christianity

Chinese Rels

Japanese Rels

Intro to Judaism

Rel & Conflict

Interpretations of Rel

Cultural Anthropology

Introduction to Prehistory

Andean South America

COM/HSS 392 Int'l & Crosscultural Comm

COM/HSS 392 Int'l & Crosscultural Comm

Race in U.S. Pol

GEO/SOC 220 Cultural Geography

Technology in Society and Culture

Peoples and Cultures of Africa

Aztecs, Maya & Their Predecessors

Peoples & Cultures of Southeast Asia

Code Breakers: Unlocking Hum Lang

Introduction to Agroecology Insects and Human Disease Intro to Environmental Science Climate Change & Sustainability Energy & the Environment French: Lang, Culture & Tech German Lang, Culture, Science & Tech Green Germany: Nat and Environ Spanish, Lang, Tech, Culture World Forestry Conservation of Natural Resources Introduction to Visual Culture Science and Religion in European History Science in European Culture Words Through Space & Time **Environmental Ethics** Animals in the Global Community Intro to International Studies Earth Systems Science: Exp the Conn Human Dimensions of NR in Australia

World Population and Food Prospects Global Knowledge Co-Requisite Only

Sustaining Nat. Resources in Australia

Contemp Sci, Tech & Human Values

Equality & Justice in US Law

Visual & Performing Arts

Intoduction to African-Amer Mus

Interdisciplinary Perspectives

Intro to America Studies

Current Social Problems

PSY/WGS 406 Psych of Gender

SOC/WGS 304 Women & Men in Soc

SOC/WGS 204 Soc of Family

AFS/MUS 260 Hist of Jazz

MUS/WGS 360 Women in Mus

See list at http://oucc.ncsu.edu/gep-gk-course Courses that have a "co-req only" indicator will only satisfy the co-requisite requirement and these courses are not listed on any other GEP course list. Any course taken in a study abroad context may satisfy the GEP Global Knowledge requirement.

Retrieved 6.12.2015 http://oucc.ncsu.edu/gep-gk-course PS 309

SOC 203

MUS 206

IDS 210

AFS/MUS 230

CS 230

ES 200

ES 300

FLF 212

FLG 212

FLG 440

FLS 212

FOR 414

FOR/FW 221

HA/HI 240

HI 483

HI 484

HON 311

IDS 201

IDS 310

IS 200

MEA 100

PRT 449

PRT 450

STS 302

STS 323

FNT 207

ES/ET 100

U. S. DIVERSITY (USD)

Native Peoples & Cultures of N America

		O. O. DIVERSITY (OOD)
Humanities	HI/REL 320	Religion in American History
Intro to Afr-Am Studies II	HI 346	Intro to Civil War and Reconstruction
Leadership in Afr Am Communties	HI 360	U.S. Agricultural History
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ENG/WGS 305 Women & Lit

Modern Am Hist

HA/HI 240

Italian Society Through the Cinema

Modern Japanese Lit in Translation

Advanced Hindi: Readings in Lit I

Advanced Hindi: Readings in Lit II

Russian Lit in Trans: The 19th Cent

Russian Lit in Trans: The 20th Cent

Russian Cinema and Society

Lit & Cult of Latin America I

Lit & Cult of Latin America II

Lit & Cult of Latin America III

Introduction to Visual Culture

Modern Europe 1815-Present

Hist of British Cults & Societies

The World from 1200-1750

The World in the 20th Cent

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Asian Civilization to 1800

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Ancient World to 180 AD

Latin America to 1826

British Hist to 1688

Latin America Since 1826

The Middle Ages

Lit & Cult of Spain I

Lit & Cult of Spain II

Lit & Cult of Spain III

Intro to Hispanic Lit and Cultures

Hindi Lit & South Asian Cult Contexts

Classic Japanese Lit in Trans

Early Mod Japanese Lit in Trans

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Ethics & Gender Philosophical Issues in Env Ethics STS/WGS 210 Women & Gender in Science & Tech US Diversity Co-Requisite Only: See on line list

America's Music

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