

## Engineering Science AS (EGRS)

Catalog: 2012 - 2013

Effective Date: 9/01/2012

CR COURSE		SEMESTER							
		CA#	TR						
1-4	HRD 100A, 100 or 110								
3	ENG 101 or ENG 100A & B								
3	SUNY GEN ED Basic Communication Course (Choose from : ENG 102-110)								
4	CHM 111(Prereq Required)								
4	EGR 105 (Prereq Required)								
4	EGR 106 (Prereq Required)								
4	EGR 204 (Prereq Required)								
4	EGR 222 (Prereq Required)								
4	MAT 131 (Prereq Required)								
4	MAT 132 (Prereq Required)								
1	PHYSICAL EDUCATION – activity credit Note: PED 105, 106, 172, 206, 210, 211, 212 do not fulfill this requirement								
1	PHYSICAL EDUCATION – activity credit Note: PED 105, 106, 172, 206, 210, 211, 212 do not fulfill this requirement								
3	SUNY GEN ED The Arts, Humanities or Foreign Language								
3	SUNY GEN ED Social Science								
4	MAT 231 (Prereq Required)								
4	MAT 232 (Prereq Required)								
<b><u>15-18 Core Electives: Choose from Concentration*</u></b>									
<b><u>Chemical Engineering Core Elective:</u></b>									
4	CHM 112 (Prereq Required)								
4	CHM 203 (Prereq Required)								
4	CHM 204 (Prereq Required)								
3-4	Core Elective by Advisement								
3-4	Core Elective by Advisement								
<b><u>Electrical Engineering Core Elective:</u></b>									
3	EGR 183 (Prereq Required)								

3	CIS 143 (Prereq Required)								
3	CIS 144 (Prereq Required)								
4	EGR 223 (Prereq Required)								
3-4	Core Elective By Advisement								
<b><u>Mechanical /Civil Engineering Core Elective:</u></b>									
3	EGR 207 (Prereq Required)								
3	EGR 209 (Prereq Required)								
3-4	Core Elective by Advisement								
3-4	Core Elective by Advisement								
3-4	Core Elective by Advisement								
<b><u>Computer Engineering Core Elective:</u></b>									
3	EGR 183 (Prereq Required)								
3	CIS 143 (Prereq Required)								
3	CIS 144 (Prereq Required)								
3-4	Core Elective by Advisement								
4	Choose 1 course from the following: CIS 243 or EGR 223 (Prereq Required for both)								
66	<b>Minimum</b> credits required for graduation								66+

### Notes on Engineering Science AS (EGRS)

- ❖ **Financial Aid Recipients:** You **must** choose courses that are within your degree program. Visit the Advisement Center in Warren Hall if you have any questions.

#### Definition of Terms

**Social Science** - ANT, ECO, GEG 110, HIS, HED103, PSC, PSY, and SOC

**Math & Science** - ANT103, AST, BIO, CHM, GEO, MAT, PHY, EGR 105, 106, & 204, and SCI

**Humanities** - ENG 200 level, ART, ASL, CHN, FRN, GRM, INT, MUS, PHI, RUS, SPA, SPH, and THR.

**Liberal Arts** - Any of the above courses and COM 183.

**Electives** - Any credit course offered by the College.

**Physical Education** - Two credits are required. PED 105, 106, 172, 206, 210, 211, and 212 are NOT activity courses.

## Notes on Engineering Science AS (EGRS) - Continued

### Concentration Areas

#### Chemical Engineering Core Elective

- 4 CHM 112
- 4 CHM 203
- 4 CHM 204
- 6-8 Core Elective by Advisement  
Choose from: EGR 109 and up, CHM 2XX,  
CIS 143, CIS 144, MAT 220

#### Mechanical/Civil Engineering Core Elective

- 3 EGR 207
- 3 EGR 209
- 9-12 Core Elective by Advisement  
Choose from: EGR 109 and up, CHM 112, CIS 143,  
CIS 144, MAT 220

#### Electrical Engineering Core Elective

- 3 EGR 183
- 4 CIS 143
- 4 CIS 144
- 3 EGR 223
- 3-4 Core Elective by Advisement  
Choose from: EGR 109 and up, CHM 112,  
MAT 220

#### Computer Engineering Core Elective

- 3 EGR 183
- 3 CIS 143
- 3 CIS 144
- 4 CIS 243 OR EGR 223
- 3-4 Core Elective by Advisement  
Choose from: EGR 109 and up, CHM 112, CIS 243,  
EGR 223, MAT 220

**\*Substitutions can be made to Core Concentrations depending upon transfer requirements of four year schools.**

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### **RECOMMENDED SEQUENCES**

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#### **FIRST YEAR**

##### **First Semester**

- 1-4 HRD 100A, 100, or 110
- 3 ENG 101 or 100A & B
- 4 MAT 131
- 3 SUNY GEN ED Social Science
- 4 CHM 111
- 1 PED

##### **Second Semester**

- 3 ENG 102 - 110 (110 Recommended)
- 4 MAT 132
- 4 EGR 105
- 3-4 Core Elective by Concentration Area
- 3-4 Core Elective by Concentration Area

#### **SECOND YEAR**

##### **Third Semester**

- 3-4 Core Elective by Concentration Area
- 4 MAT 231
- 4 EGR 222
- 3 SUNY GEN ED The Arts, Humanities or  
Foreign Language
- 4 EGR 106

##### **Fourth Semester**

- 4 MAT 232
- 3-4 MAT 231 Core Elective by Concentration Area
- 3-4 EGR 222 Core Elective by Concentration Area
- 4 EGR 204
- 1 PED

**SUNY General Education Knowledge Areas: (See the SUNY GEN ED Requirements in the current catalog)**

- |                          |                              |
|--------------------------|------------------------------|
| # 1 Mathematics          | # 6 Other World Civilization |
| # 2 Natural Sciences     | # 7 Humanities               |
| # 3 Social Sciences      | # 8 The Arts                 |
| # 4 American History     | # 9 Foreign Languages        |
| # 5 Western Civilization | # 10 Basic Communication     |