

# Engineering Science (A.S. Degree)

2009 - 2011 Catalog

Major Code: 024

## REMEDIAL SEQUENCE (if Required)

ESL 02 (6)	→	ESL 03 (6)	→	ENG 09 (4)
ENG 01 (4)	→	ENG 02 (4)		
RDL 01 (5)	→	RDL 02 (5)		
MTH 01 (4)	→	MTH 05 (6)	→	MTH 06 (6)
CHM 02 (4)				

## GRADUATION REQUIREMENTS

CAT - R	CAT - W	CAT - M
Writing Intensive Course I	Writing Intensive Course II	
2.0 GPA or higher		

## FRESHMAN REQUIREMENT

OCD 01
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<sup>1</sup> ENG 10 is designed for students who pass the CAT-R and score 6 on the CAT-W.

<sup>2</sup> HIS 11 is designed for students on the ENG 01/02 and/or RDL 01/02 level.

<sup>3</sup> Select one from each category:

### Category I

- CHM 12 General College Chemistry II (4 cr.)
- CHM 22 General Chemistry II with Qualitative Analysis (5 cr.)
- PHY 51 Modern Physics (3 cr.)

### Category II

- DAT 41 Assembly Language Programming (3 cr.)
- MTH 35 Selected Topics in Advanced Calculus and Linear Algebra (4 cr.)
- MEC 11 Basic Engineering Graphics (2 cr.)
- PHY 35 Thermodynamics (3 cr.)

## CORE REQUIREMENTS

ENG 10 <sup>1</sup>	Fundamentals of Composition and Rhetoric	<b>OR</b>	
ENG 11	Composition and Rhetoric I		3
CMS 11	Fundamentals of Interpersonal Communication	<b>OR</b>	
CMS 20	Public Speaking & Critical Listening		3
HIS 10	History of the Modern World	<b>OR</b>	
HIS 11 <sup>2</sup>	Introduction to the Modern World		3
CHM 11	General College Chemistry I		4
<b>Subtotal:</b>			<b>13</b>

## REQUIRED AREAS OF STUDY

ART 10	Art Survey	<b>OR</b>	
MUS 10	Music Survey		1
HIS	History	<b>OR</b>	
SOC SCI	Select from ANT, ECO, GEO, PHL, POL, PSY	<b>OR</b> SOC	3
<b>Subtotal:</b>			<b>4</b>

## SPECIALIZATION REQUIREMENTS

MTH 31	Analytic Geometry & Calculus I	4
MTH 32	Analytic Geometry & Calculus II	5
MTH 33	Analytic Geometry & Calculus III	5
MTH 34	Differential Equations & Topics in Advanced Calculus	4
PHY 31	Engineering Physics I	4
PHY 32	Engineering Physics II	4
PHY 33	Engineering Physics III	4
PHY 61	Computer Methods & Programs	<b>OR</b>
CSI 31	Introduction to Computer Programming I	3
SCI <sup>3</sup>	Science Electives	5-9
<b>Subtotal:</b>		<b>38-42</b>

## FREE ELECTIVES

XXX	Free Electives to complete 60 credits	1-5
<b>Subtotal:</b>		<b>1-5</b>
<b>Total credits:</b>		<b>60</b>