

**PRE-ENGINEERING (CODE AS 4000)**  
Delta College - Associate in Science Degree  
Saginaw Valley State University

Many courses have prerequisites. See course descriptions in current catalog or on website at  
<http://www.delta.edu/catalog/courses.asp>

**A maximum of 62 transferable and usable community college credits will be accepted by SVSU. STUDENTS SHOULD LIMIT THEIR CHOICES TO THIS MAXIMUM ACCORDINGLY.**

DEPT/CAT #	SVSU	COURSE TITLE	NOTES--see notes for #	SEM/CR HR
___ CHM 111	CHEM 111, 111L	General and Inorganic Chemistry I	(Satisfies part of #4, Natural Science requirement at SVSU)	4
___ EGR 100 } ___ EGR 101 }	ME 101 ECE 101 (EE & ME)	Careers in Engineering Engineering Design & Analysis	Must take both to transfer for ME/ECE 101	1 1
___ EGR 165 or ___ EGR 166	ME 220 (ME only) ME 220 (ME only)	Introduction to Engineering Graphics Mech. or Engineering Graphics (minimum one year of Mechanical Drawing with "C" minimum prerequisites)	ME 220 is three credits	4
___ EGR 235	ECE 235, 235L (EE & ME)	Circuit Analysis		4
___ EGR 215 ___ EGR 216	ME 251 (EE & ME) ME 252 (ME only)	Engineering Mechanics, Statics Engineering Mechanics, Dynamics		3 3
___ ENG 111 ___ ENG 112	ENGL 111 100 level Category 10 elective	College Composition I (or ENG 111A) College Composition II (or ENG 112A)	(Satisfies Basic Skills at SVSU) (Satisfies #10, Written Comm. At SVSU)	3 3
___ MTH 161 ___ MTH 162 ___ MTH 261 ___ MTH 263 and ___ MTH 264	MATH 161 MATH 162 MATH 261 MATH 262 (4 cr)	Analytic Geometry and Calculus I Analytic Geometry and Calculus II Analytic Geometry and Calculus III Introduction to Linear Algebra Introduction to Ordinary Differential Equations	(Satisfies # 3, Numerical Understanding at SVSU)  Note "C"	4 4 4 3 3
___ PHY 211 ___ PHY 212	PHYS 211, 211L PHYS 212, 212L	Physics I Physics II	(Satisfies part of # 4, Natural Science requirement at SVSU)	5 5
<u>Lifelong Wellness</u> ___ LW 220 and ___ LWA ___ ___ OR ___ LW ___	Elective Elective  Elective	<i>Two LW credits req. for Delta Associate Degree</i> Any 1 Credit LW AND Any 1 Credit LWA Course OR Any 2 Credit LW Course		1 1  (2)
<u>Humanities</u> ___ PHL 207 and ___ PHL 210	PHIL 210b	Engineering Ethics Information Technology Ethics & Law	(Satisfies #5, Historical and Philosophical Ideas at SVSU)	1 2
___ Elective ___ Elective	<i>Select one course from 2 of the 3 categories below.</i> (1) Literature (LIT) 220-223, 228, 229, 230, 241, 242, 245, 246, 260, 268, 283 (2) Arts: (ART) 105, 151, 152; (COM) 215, 216, 222; (IHU) 101, 226; (LIT) 226; (MUS) 100, 111, 112, 115, 118, 119, 120, 131, 132 (9) Oral Communication: (COM) 112, 114; (FR) 111, 112, 211; (GE) 111, 112, 211; (RUS) 111; (SPA) 105, 106, 111, 112, 211.			3 3
<u>Social Science</u> ___ POL 104W ___ PSY 211W	American Government Requirement  General Psychology		(Satisfies #7, Social Institutions at SVSU Required for Delta College Associate Degree.)  (Satisfies #6, Social Science Methods at SVSU.)	4 4
<b>TOTAL CREDITS REQUIRED FOR ASSOCIATE DEGREE EE/ME</b>				<b>62/65</b>

NOTES:	Mathematics sequence for MTH 161:		
A. Co-op available, call 964-4144, Deborah Huntley (SVSU). <a href="mailto:huntley@svsu.edu">huntley@svsu.edu</a>	MTH 092	Basic Mathematics	2
B. Student must complete MTH 263 & 264 for 6. In transfer, 4 of those credits are equal to SVSU's MATH 262 (4 cr. hr.)	MTH 096	Pre-Algebra	2
C. A maximum of 62 transferable and usable community college credits will be accepted by SVSU. <b>STUDENTS SHOULD LIMIT THEIR CREDIT CHOICES TO THIS MAXIMUM ACCORDINGLY.</b> One credit of EGR 165/166 and two credits of MTH 263/264 do not have to be used in the transfer. The best applicable 62 cr. will transfer. Degree totals include third humanities elective, EGR 165/166 and MTH 263/264 credits.	MTH 097	Algebra I	3
	MTH 119W/119AW	Intermediate Algebra	4
	MTH 121	Plane Trigonometry	3
	MTH 151	Pre-Calculus Mathematics	4
	Prerequisites for CHM 111: High school Chemistry or CHM 101, General Chemistry.		
Prerequisites for PHY 211: MTH 161 Analytic Geometry & Calculus			4

ABOVE INFORMATION IS SUBJECT TO MODIFICATION. DELTA COLLEGE IS NOT RESPONSIBLE FOR PROGRAM REQUIREMENTS AND STUDENT ACCEPTANCE BY TRANSFER COLLEGES.

## PRE-ENGINEERING (CODE AS 4000)

Engineering and Engineering Technology Majors and minors offered at Saginaw Valley State University

### **Bachelor of Science in Electrical Engineering (B.S.E.E.):**

**Concentrations:** *Electrical Systems Engineering or Computer Engineering*

**Minors:** *Electrical Engineering and Engineering and Technology*

Department of Electrical and Computer Engineering: <http://www.svsu.edu/eleceng/>

### **Bachelor of Science in Mechanical Engineering (B.S.M.E.):**

**Minors:** *Mechanical Engineering and Engineering and Technology*

Department of Mechanical Engineering: <http://www.svsu.edu/mecheng/>

### **Bachelor of Science in Engineering Technology Management (B.S.E.T.M)**

**Minor:** *Engineering and Technology*

Department of Mechanical Engineering: <http://www.svsu.edu/mecheng/>

## SOURCES OF ADDITIONAL INFORMATION

Engineers' Council of Professional Development  
345 East 46th Street  
New York, NY 10017

National Society of Professional Engineers  
1420 King Street  
Alexandria, VA 22314  
<http://www.nspe.org>

The Accreditation Board for Engineering & Technology, Inc.  
111 Market Place, Suite 1050  
Baltimore, MD 21202-4012  
<http://www.abet.org>

Delta's Counseling/Advising  
and Career Services - D102 - (989) 686-9330

*Occupational Outlook Handbook*  
for Specific Branches of Engineering Societies  
<http://stats.bls.gov/oco/ocos027.htm>

Industrial Engineers - <http://www.iienet.org>  
Mechanical: <http://www.ashrae.org>  
Metallurgical/Ceramics/Materials: <http://www.tms.org>