

Southwestern Indian Polytechnic Institute  
Advanced Technical Education  
PROGRAM OF STUDY - ASSOCIATE OF SCIENCE DEGREE  
ENGINEERING – 14.0101

Student \_\_\_\_\_ ID Number \_\_\_\_\_  
                   Last                                      First                                      MI

Entry or Readmission Date \_\_\_\_\_ Advisor \_\_\_\_\_

SIPI Catalog Edition: 2009

**TECHNICAL PROGRAM REQUIREMENT (31 Cr. Hrs. Required)**

<u>Course No.</u>	<u>Course Title</u>	<u>Credit</u>	<u>Term/Year</u>	<u>Grade</u>	<u>Accepted as Transfer or Substitute Course</u>
ENGR 102	Advanced CAD	3	_____	___	_____
ENGR 110	Computer Aided Problem Solving	3	_____	___	_____
ECON 200	Macroeconomics <u>OR</u>				
ECON 201	Microeconomics	3	_____	___	_____
ENGR 211	Circuit Analysis I	3	_____	___	_____
ENGR 211L	Circuit Analysis I Lab	1	_____	___	_____

**Technical Electives (18 Cr. Hrs. Minimum Required)**

_____	_____	___	_____	___	_____
_____	_____	___	_____	___	_____
_____	_____	___	_____	___	_____
_____	_____	___	_____	___	_____
_____	_____	___	_____	___	_____
_____	_____	___	_____	___	_____
_____	_____	___	_____	___	_____

Consult Academic Advisor. Select from: ENGR 205, ENGR 212/L, ENGR 213/L, ENGR 215/L, ENGR 222/L, ENGR 225, ENGR 231, or ENGR 295 (Optional to include 3 credit hours from ENGR 280, ENGR 285, ENGR 290, ELEC 101A/101L or above, GIT 101 or above, ITCT 111 or above, RENG 220/220L, or RENG 230/230L)

**ACADEMIC COMPONENT REQUIREMENT (38 Cr. Hrs. Required)**

**Communications (9 Cr. Hrs. Required)**

ENGL 101	Composition	3	_____	___	_____
ENGL 102	Critical Reading and Writing	3	_____	___	_____
ENGL 219	Technical Writing	3	_____	___	_____

**Mathematics (12 Cr. Hrs. Required)**

MATH 162	Calculus I	4	_____	___	_____
MATH 163	Calculus II	4	_____	___	_____
MATH 270	Ordinary Differential Equations	4	_____	___	_____

**Computer Science (3 Cr. Hrs. Required)**

COSC 195	C Language	3	_____	___	_____
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**Laboratory Science (8 Cr. Hrs. Required)**

PHYS 160	Engineering Physics I	3	_____	___	_____
PHYS 160L	Engineering Physics I Lab	1	_____	___	_____
CHEM 121	General Chemistry I	3	_____	___	_____
CHEM 121L	General Chemistry I Lab	1	_____	___	_____

**Social/Behavioral Science/Humanities Elective (6 Cr. Hrs. Required)**

_____	_____	3	_____	___	_____
_____	_____	3	_____	___	_____

Select from: ANTH 101, ANTH 130, HIST 101, HIST 161, HIST 162, POSC 200, PSYC 105, or SOSC 101

**TOTAL CREDIT HOURS REQUIRED FOR AN ASSOCIATE OF SCIENCE DEGREE: 69**

Note: The minimum grade requirement for awarding an Associate of Science Degree in Engineering is a "C" or better in all required courses.

Approved AAC: October 15, 2008  
Revised: November 4, 2008