



PROGRAM OF STUDY PATHWAY TEMPLATES 2011–2012  
 — UNIVERSITY TRANSFER - WSU MATERIALS & MECHANICAL ENGINEERING \*

COLLEGE: **Sinclair Community College**

HIGH SCHOOL(S): Centerville, Ponitz CTC, Greene CCC,

Kettering Fairmont, Stebbins, Butler Tech,

Miami Valley Career Tech Center

CAREER FIELD: Engineering & Science Technologies

PATHWAY: University Transfer

PROGRAM: University Transfer - WSU Materials & Mechanical Engineering

107 Credit Hours - Associate of Applied Science



HIGH SCHOOL	<b>Freshman</b>	English I (1)	Integrated Algebra & Geometry or Algebra I (1)	Physical Science (1)	Social Studies (1)	Health (.5) P E (.5)	Career Exploration	Foreign Language I
	<b>Sophomore</b>	English II (1)	Geometry or Algebra II (1)	Biology (1)	American History (1)	Intro to Engineering Design (1)	P E (.5)	Foreign Language II
	<b>Junior</b>	English III (1)	Algebra II / Adv Algebra II & Trigonometry (1)	Physics I (1)	American Govt (.5) Social Studies Elective (.5)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	Foreign Language III
	<b>Senior</b>	<u>English IV (1)</u>	<u>Integrated College Math or Calculus (1)</u>	Chemistry (1)	Elective (1)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	Foreign Language IV

**Take Accuplacer (reading, math, and writing). Visit Sinclair academic advising. Earn high school diploma. Complete pathway as designed.**

COLLEGE	<b>1st Quarter</b>	ENG 111 (3) English Composition I	MAT 201 (5) Calculus & Analytic Geometry I	SME 110 (4) Scientific Thought & Method	SME 101 (5) Intro Math for Engineering App			
	<b>2nd Quarter</b>	ENG 112 (3) English Composition II	MAT 202 (5) Calculus & Analytic Geometry II	PHY 201 / 207 (6) General Physics I	EGR 100 (3) Fundamental Mechanical Skills			
	<b>3rd Quarter</b>	ENG 113 (3) English Composition III	MAT 203 (5) Calculus & Analytic Geometry III	PHY 202 / 208 (6) General Physics II	Social Science Elective (3)			
	<b>Recommended Summer Term</b>	Arts & Humanities Elective (3)	CHE 151 / 157 (5) General Chemistry I					
	<b>4th Quarter</b>	COM 211 (3) Effective Speaking I	MAT 204 (5) Calculus & Analytic Geometry IV	PHY 203 / 209 (6) General Physics III	Social Science Elective (3)			
	<b>5th Quarter</b>	ETD 211 (5) Statics - Calculus Based	MAT 215 (5) Differential Equations	PHY 210 (3) Problem Solving in Physics w/ MatLab	Arts & Humanities Elective (3)			
	<b>6th Quarter</b>	Social Science Elective (3)	MAT 216 (4) Linear Algebra	Arts & Humanities Elective (3)	ETD 212 (5) Dynamics - Calculus Based			



**Sinclair converts to semesters in 2012-2013. Visit [www.sinclair.edu/semesters](http://www.sinclair.edu/semesters) for new course names and credit hours.**

**Credit-Based Transition Programs, such as dual enrollment, articulated courses 2+2 (+2)**  
 ◆ = high school to college   ● = community college to 4 year institution   ■ = opportunity to test out  
**Required Courses for a major in WSU College of Engineering & Computer Science (credit hours)**  
**Recommended Elective Courses**