

COLLEGE: **Sinclair Community College-MVTP Consortium**

CLUSTER: **Science & Engineering**

HIGH SCHOOL(S): \_\_\_\_\_

PATHWAY: **Engineering - University Parallel**



PROGRAM: **Engineering - University Parallel (Multiple Pathways)**

**2009-2010**

**90 - 110 Credit Hours - SCC Associate of Science**

ADULT LEARNER ENTRY POINTS

GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	REQUIRED COURSES					
					RECOMMENDED ELECTIVE COURSES		OTHER ELECTIVE COURSES			
CAREER AND TECHNICAL EDUCATION COURSES										
SECONDARY	9	English I (1)	Algebra I (1)	CP Physical Science w/ Lab (1)	World History (1)	Health (.5) P E (.5)	Foreign Language I (1)			
	10	English II (1)	Geometry (1)	Biology (1)	American History (1)	P E (.5) Elective(.5)	Foreign Language II (1)			
	11	English III (1)	Algebra II w/ Trig Functions (1)	Chemistry (1)	Am.Govt. (.5) Social Studies Elective (.5)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)			
	12	English IV (1)	Calculus (1)	Physics or other AP lab science (1)	Elective (1)	College Tech Prep Engineering Technology (1)	College Tech Prep Engineering Technology (1)	<b>ACT College Readiness Std.</b> English - 18	Math - 22 (Calculus - 27)	

**Mandatory College Placement Assessment (Reading, Math and Writing) and Sinclair Academic Advising # + Passage of the State O.G.T. Requirement**

POSTSECONDARY	<p><b>Sinclair degree requirements</b> -College Foundations (2 hours) <b>SCC 101</b>- Student Success Experience, Computer Literacy (3 hours) <b>ETD 199</b> - Inroduction to Computer-Aided Design Concepts (2 hours) <b>COM 211</b> - Effective Public Speaking</p>	<p><b>Ohio Transfer Module (54 - 60 hours)</b> - Complete OTM as follows: English (ENG 111, 112, 113) - 9 hours; Mathematics - see below; Natural Science - 9 to 12 hours: Social &amp; Behavioral Science - 9 hours minimum (ECO, GEO, PLS, PSY, SOC); Arts &amp; Humanities - 9 hours minimum (ART, DAN, HIS, HUM, LIT, MUS, PHI, REL, THE)</p>
	<p><b>Math &amp; Science Concentration:</b> (10 hours Not taken under OTM Math &amp; Science Core): <b>MAT 202 &amp; 203</b> (10) - Calculus II &amp; III</p>	<p><b>Math &amp; Science Core for OTM completion</b> (23 of the 54 hours required in the OTM from #2 above): <b>MAT 201</b>- Calculus I (5) &amp; <b>PHY 201, 202, 203</b> - General Physics I, II, III (18) w/ lab sections <b>PHY 207, 208, 209</b></p>
	<p><b>Electives:</b> <u>Aerospace/Civil &amp; Mechanical:</u> <b>ETD 211</b> - Statics <i>Calc based</i> (5), <b>ETD 212</b> - Dynamics <i>Calc based</i> (5), <b>MAT 215 (5)</b> - Differential Equations. <u>Biomedical &amp; Bioengineering:</u> <b>BIO 171 &amp; 172 (10)</b> - Principles of of Biology I &amp; II w/ labs &amp; <b>CHE 151(5)</b> - General Chemistry I, <b>CHE 152 (5)</b> - General Chemistry II , <b>CHM 153 (5)</b> - General Chemistry III. In addition, take lab sections <b>CHE 157, CHE 158, CHE 159</b> under General Chemistry sequence. <u>Chemical &amp; Environmental Engineering:</u> <b>CHE 151(5)</b> - General Chemistry I, <b>CHE 152 (5)</b> - General Chemistry II , <b>CHM 153 (5)</b> - General Chemistry III. In addition, take lab sections <b>CHE 157, CHE 158, CHE 159</b> under General Chemistry sequence &amp; <b>MAT 215 (5)</b> - Differential Equations. <u>Computer or Electrical:</u> Full 1 year sequence of Calculus and Calculus based Phycs &amp; <b>MAT 204</b> - Calculus &amp; Analytic Geometry IV; Multi-variable (5)</p>	

<p><b># The pathway template is a MAP to Program Course Selection. Sinclair Academic Advisors will assist students with individual course selections. Templates are precise for the year stated.</b></p>	<p><b>Ohio Transfer Module - Sinclair requires a minimum of 54 hours to complete the OTM. See advisor</b></p>
	<p><b>State Aproved Transfer Assurance Guide (TAG) Courses</b></p>
	<p><b>Recommended electives may represent additional transferable courses beyond the TAG or OTM</b></p>
	<p><b>Institutional Requirements: For entrance and graduation, a transfer student must meet all institutional and degree requirements of native students at the receiving institution.</b></p>