

# AAS: Mechanical Technology

**Curriculum Chair:** Prof. Tom Curanovic TECH-133 Tel # (914) 606-6942 Email: [Tom.Curanovic@sunywcc.edu](mailto:Tom.Curanovic@sunywcc.edu)

**Academic Dean:** Dr. Kwesi Amoa TECH-106 Tel # (914) 606-6789 Email: [Kwesi.Amoa@sunywcc.edu](mailto:Kwesi.Amoa@sunywcc.edu)

## Developmental Courses as required based on placement scores

<input type="checkbox"/>	<b>ENG 91</b> Writing for College 1 – Score of 4 E Code 1 and below, <b>30.01</b> Choose an item.
<input type="checkbox"/>	<b>ENG 92</b> Writing for College 2 – Score of 6 E Code 2, <b>30.02</b> Choose an item.
<input type="checkbox"/>	<b>ENG 99</b> Writing Studio with linked ENG 101+ - Score of 6 E Code 2, <b>30.02</b> OR successful completion of ENG 91
<input type="checkbox"/>	<b>ESL 94</b> Academic Writing 1 – Score of 5 or 6 E Code 6, <b>20.01</b> .
<b>3</b> <input type="checkbox"/>	<b>ESL 122</b> Academic Writing 2 – Score of 7 E Code 7, <b>21.01</b>
<input type="checkbox"/>	<b>MATH 92</b> Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below, <b>40.01</b> Choose an
<b>OR</b> <input type="checkbox"/>	<b>MATH 93</b> Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below, <b>40.02</b> Choose an item. <b>MATH 94</b> Foundations of Mathematical Reasoning – Arithmetic score 45 and above, Elementary Algebra 54 and below, <b>40.02</b> Choose an item.
<input type="checkbox"/>	<b>READ 93</b> Foundation of College Reading – Score of 57 and below, <b>10.01</b> Choose an item.
<b>3</b> <input type="checkbox"/>	<b>READ 105</b> Analytical Reading – Score of 58 and higher <b>11.01</b> Choose an item.

## Core Requirements

<b>3</b> <input type="checkbox"/>	<b>ENG 101</b> – Writing and Research <b>OR ENG 101H</b> Choose an item.
<b>3</b> <input type="checkbox"/>	<b>ENG 102</b> – Writing and Literature <b>OR ENG 102H</b> Choose an item.
<b>4</b> <input type="checkbox"/>	<b>MATH 135</b> – College Algebra with Trigonometry or higher Choose an item.
<b>4</b> <input type="checkbox"/>	<b>MATH 161</b> – Pre-calculus or higher Choose an item.
<b>4</b> <input type="checkbox"/>	<b>PHSYC 101</b> - Technical Physics I (and Lab) <sup>1</sup> or Choose an item.
	<p><b>THE ARTS, FOREIGN LANGUAGE, or OTHER WORLD CIVILIZATIONS GENERAL ED REQUIREMENTS – Select a 3/4 credit course:</b></p> <p><b>ART</b> 101, 102, 103, 104, 105, 106, 107, 108, 109, 109A, 110, 111, 112, 125, 129, 130, 133, 134, 135, 137, 138, 140, 141, 147, 201, 203, 212, 265, <b>DANCE</b> 101, 102, 107, 120, 121, 205, 207, <b>FILM</b> 100, 101, 102, 130 <b>MUSIC</b> 110, 110H, 111, 120, 121, 130, 131, 132, 133, 150, 230, 231, 232, 233, <b>THEAT</b> 111, 113, 201</p> <p><b>ARABC</b> 101, 102, <b>CHINS</b> 102, <b>FREN</b> 101, 102, 201, <b>ITAL</b> 101, 102, 103, 201, 201H, 202, 202H, 250, <b>JAPNS</b> 101, 102, <b>RUSSN</b> 101, <b>SPAN</b> 101, 102, 103, 104, 201, 201H, 202, 202H, 203, 204</p> <p><b>ANTHR</b> 120, 210, 215H, <b>HIS</b> 119, 128, 129, 131, <b>POLSC</b> 113</p>
<b>3</b> <input type="checkbox"/> <b>/4</b> <input type="checkbox"/>	
	<p><b>AMERICAN HISTORY, WESTERN CIVILIZATION or SOCIAL SCIENCES GENERAL ED REQUIREMENTS – Select a 3 credit course:</b></p> <p><b>ANTHR</b> 101, 102, 103, 201, <b>CJ</b> 111, <b>ECON</b> 101, 101H, 102, 102H, <b>GEOG</b> 101, <b>HSERV</b> 102, 200, <b>LIN</b> 201, <b>POLSC</b> 111, 111H, 115, <b>PSYCH</b> 101, 101H, 103, 103H, 107, 109, 110, 111, 112H, 201, <b>SOC</b> 101, 101H, 102, 103, 104, <b>ART</b> 108, 109, <b>HIS</b> 101, 102, 104, 106, 110, 111, 112, 121*, 133**, 134**, <b>POLSC</b> 102, 104, 107</p>

<sup>1</sup> Technical Physics 1 & Lab - prerequisite **MATH 135**-College Algebra with Trigonometry.

	<p><i>*Students who complete this course cannot use HIS 133 or 134 to fulfill degree and/or general education requirements</i></p> <p><i>**Students who complete this course cannot use HIS 121 to fulfill degree and/or general education requirements</i></p>
3□	
	<p><b>PEC/PEH/PES:</b> A combination of two courses (2 credits) either <b>PEH</b> and <b>PES</b>, or <b>PEC</b> and <b>PES</b>, or <b>PEC</b> or <b>PEH</b>, <b>PEC</b> and <b>PEC</b>. <b>PEC 110</b> (2 credits) <i>IS THE ONLY COMBINATION COURSE THAT FULFILLS BOTH P.E. REQS.</i></p>
1□	

Degree Requirements			
3□	<b>MECH 144</b> – Manufacturing 1: <b>Offered in Fall Semester.</b> Choose an item.		
3□	<b>MECH 162</b> – CAD 1 Choose an item.		
3□	<b>MECH 163</b> – CAD 2 <b>MECH 162 is the prerequisite.</b> Choose an item.		
3□	<b>ELEC 128</b> – Electrical Circuits: <b>MATH 93 or High School Algebra is the prerequisite.</b> Choose an item.		
3□	<b>MECH 120</b> – Mechanism: <b>MATH 135, MECH 162 and PHYSC 101 are the prerequisites.</b> Choose an item.		
3□	<b>MECH 127*</b> – Introduction to Thermodynamics: <b>MATH 135 is the prerequisite. PHYSC 101 is a co-requisite.</b> Choose an item.		
3□	<b>MECH 145</b> – Manufacturing 2 <b>MECH 144 is the prerequisite. Offered Spring Semester.</b> Choose an item.		
3□	<b>MECH 156</b> – Fluids: <b>MATH 135 and PHYSC 101 are the prerequisites. Offered Spring Semester.</b> Choose an item.		
3□	<b>MECH 289</b> – Manufacturing Processes: <b>Offered Spring Semester.</b> Choose an item.		
3□	<b>CIVIL 201</b> – Elements of Strength in Materials: <b>MATH 135 and PHYSC 101 are the prerequisites.</b> Choose an item.		
	<p><b>TECHNICAL ELECTIVES: Choose from ELEC, MATH, or MECH courses (9 credits): Electives include:</b>  <b>DESIGN: ELEC 160</b> – Electronics, <b>MECH 224</b> – CNC Programming, <b>MECH 255</b> – Solidworks, <b>TRANSFER:</b>  <b>MATH 181</b> – Calculus 1, <b>MATH 191</b> – Calculus 2, <b>ELEC 160</b> – Electronics, <b>PHYSC 102</b> – Tech Physics 2,  <b>PHYSC 165</b> – Principles of Energy, <b>TECHNICAL: ELEC 160</b> – Electronics, <b>MECH 224</b> – CNC Programming  <b>PRODUCT SERVICE: ELEC 160</b> – Electronics, <b>MECH 224</b> – CNC Programming, <b>MECH 255</b> – Solidworks,  <b>MECH 265</b> – CAD3 3D Modeling</p>		
3□		3□	
3□			

SEEN BY:

Completed credits of 64 required

NOTES:

\* Other substitutions by department approval.

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Academic Plan		Completed credits		of 64 required	
		Fall/Spring		Fall/Spring	
<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>
		Fall/Spring		Fall/Spring	
<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>	<u>Class</u>	<u>Credits</u>