

MIDDLESEX COUNTY COLLEGE
Division of Professional Studies

The Engineering Technologies Department

Associate in Applied Science Degree in Mechanical Engineering Technology, MEC.AAS

Sample Two-Year Course of Study

FRESHMAN YEAR

<u>Semester I</u>	<u>Credits</u>	<u>Semester II</u>	<u>Credits</u>
MCT 101 Introduction to Technology ¹	2 ___	MAT 131 Analytic Geometry and Calculus I ⁵	4 ___
MAT 129 Precalculus ²	4 ___	ENG 122 English II ⁶	3 ___
ENG 121 English Composition I ³	3 ___	CIT 105 Statics for Technicians ⁷	3 ___
ELT 105 Foundations of Electrical & Electronics Technology ⁴	4 ___	MEC 125 Advanced Mechanical Drawing/CAD II ⁸	3 ___
MEC 123 Technical Graphics/CAD I	3 ___	MEC 130 Manufacturing Process & Materials	3 ___
Total:	16	Total:	16

SENIOR YEAR

<u>Semester III</u>	<u>Credits</u>	<u>Semester IV</u>	<u>Credits</u>
PHY 123 General Physics I ⁹	3 ___	PHY 124 General Physics II ¹³	3 ___
PHY 125 General Physics I Lab ⁹	1 ___	PHY 126 General Physics II Lab ¹⁴	1 ___
CIT 203 Strength of Materials ¹⁰	4 ___	MEC 204 Fluid Mechanics ¹⁵	4 ___
MEC 228 Kinematics Design ¹¹	3 ___	MEC 260 Mechanical Design Project ¹⁶	2 ___
MEC 250 Solid Modeling ¹²	3 ___	MCT 220 Robotics & Control Systems ¹⁷	3 ___
		___ ___ Humanities Electives or	3 ___
		___ ___ Social Science Elective ¹⁸	
Total:	14	Total:	16

Total Credits Required: 62

- 1 MAT 013 or passing score on the College's Placement Test. Co-requisites: MAT 014
- 2 Appropriate score on the College Placement Test and/or satisfactory score on the Diagnostic Examination, "C" or better in Mat 014 or departmental approval.
- 3 A passing score on the College Placement Test; or a grade of "C" or better in ENG-010 and RDG-011 (RDG-011 can be a co-requisite; or a grade of "C" or better in ESL-097 or ESL-098).
- 4 MAT 013 or appropriate score on College Placement Test. Co-requisites: MAT 014 or higher level.
- 5 MAT-129 or equivalent, or appropriate score on the College placement test or satisfactory score on the diagnostic examination, or departmental approval
- 6 A grade of "C" or better in ENG-121
- 7 MCT 101, MAT 129.
- 8 MEC 123
- 9 MAT 129
- 10 CIT 105 with a grade of "C" or better.
- 11 MEC 123 & MAT 129
- 12 MEC 125
- 13 PHY 123
- 14 PHY 125
- 15 CIT 105 and MAT 129
- 16 MEC 228. Co-requisites: MEC 204, MCT 220.
- 17 MEC 123, MAT 129, ELT 105
- 18 Choose one course designated in the course descriptions as General Education Humanities (GE HUM), or Choose one course designated in the course descriptions as General Education Social Science (GE SS).