

MIDDLESEX COUNTY COLLEGE
Division of Professional Studies
The Engineering Technologies Department

Associate in Applied Science Degree Electrical Engineering Technology

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 Technology ¹	2__	MAT 129B Precalculus B ⁵	2__
MAT 129A Precalculus A ²	2__	ENG 122 English Composition II ⁶	3__
ENG 121 English Composition I ³	3__	ELT 110 Electrical/Electronic Devices & Circuits ⁷	4__
ELT 105 Foundations of Electrical & Electronics Technology ⁴	4__	ELT 111 Digital Electronics ⁸	3__
MEC 123 Technical Graphics/CAD I	3__	CSC 166 C++ Programming ⁹	3__
PED ___ Physical Education Elective ¹⁹	1__		
Total: 15		Total: 15	

SENIOR YEAR

<u>Semester III</u>	<u>Credits</u>	<u>Semester IV</u>	<u>Credits</u>
MAT 131A Analytic Geometry & Calculus I Part A ¹⁰	2__	MAT 131B Analytic Geometry & Calculus I Part B ¹⁴	2__
PHY 123 General Physics I ¹¹	3__	PHY 124 General Physics II ¹⁵	3__
PHY 125 General Physics I Lab	1__	PHY 126 General Physics II Lab	1__
ELT 226 Microcomputers ¹²	3__	ELT 223 Electronic Design & Manufacturing ¹⁶	2__
ELT 210 Electronics Circuits & Systems ¹³	4__	ELT 224 Communication Electronics ¹⁷	3__
ELT 239 Digital/Data Communications & Networking ¹²	3__	MCT 220 Robotics & Control Systems ¹⁸	3__
		___ ___ General Education Humanities or Social Science Elective (GE HUM or GE SS)	3__
Total: 16		Total: 17	

Total Credits Required: 63

- 1 MAT 013 or passing score on the College's Placement Test. Corequisites: MAT 014.
- 2 Appropriate score on the College's Placement Test and/or satisfactory score on the Diagnostic Examination, "C" or better in MAT 014 or MAT 014A and MAT 014B, or departmental approval. MAT 129 may be substituted for 129A and B.
- 3 A passing score on the writing portion of the College's Placement Test or a grade of "C" or better in ENG 010; completion of RDG 009 with a "C" or better or a score on the reading portion of the College's Placement Test that exempts the students from RDG 009.
- 4 MAT 013 or appropriate score on the College's Placement Test. Corequisite: MAT 014 or higher level.
- 5 MAT 129A or equivalent course. MAT 129 may be substituted for 129A and B.
- 6 A grade of "C" or better in ENG 121 and a passing score on the reading portion of the College's Placement Test or a grade of "C" or better in ENG 121 and a grade of "C" or better in RDG 011.
- 7 ELT 105 or equivalent. Corequisite: MAT 129A or MAT 129.
- 8 MAT 013 or appropriate score on the College Placement Test.
- 9 CSC 133 may be substituted for CSC 166.
- 10 MAT 129, or MAT 129A/129B, or appropriate score on the College's Placement Test and/or satisfactory score on the Diagnostic Examination, or departmental approval. MAT 131 can be substituted for MAT 131A and B.
- 11 MAT 129 or MAT 129B.
- 12 ELT 111
- 13 ELT 110
- 14 MAT 131A or equivalent. MAT 131 can be substituted for MAT 131A and B.
- 15 PHY 121.
- 16 ELT 210, ELT 226.
- 17 ELT 210.
- 18 ELT 105, MEC 123, MAT 129B or MAT 129, and PHY 121.
- 19 Students have the option of substituting Health Education Electives in place of the Physical Education Elective.