**Rowan College of South Jersey**

**Graduation Program Guide**

# Associate in Applied Science in Mechanical Engineering Technology (A.A.S.)

**Division of Science, Technology, Engineering & Math**

**Required Core and Elective Courses**

\*To ensure your program is General Education compliant, consult the [**General Education Foundation**](http://www.njccc.org/pubs/GenEdFoundation.pdf) **(GEF)** guidelines.

\*\*Please consult the appropriate campus [College Catalogue](http://www.rcgc.edu/Publications/Documents/RCGC-Catalog2016.pdf)  for approved General Education courses.

**Written and Oral Communications Credits**

ENGL 101 English Composition I 3

ENGL 102 English Composition II **or**

COMM 103 Technical and Scientific Writing 3

**Math/Science/Technology**

\_\_\_\_ \_\_\_\_ Math, Science, or Technological General Education Elective 3-4

**Social Science or Humanities**

\_\_\_\_ \_\_\_\_ Social Science or Humanities General Education Elective 3

**Unassigned Gen. Ed.**

\_\_\_\_ \_\_\_\_ General Education Elective 3-4

\_\_\_\_ \_\_\_\_ General Education Elective 3-4

\_\_\_\_ \_\_\_\_ General Education Elective (if required) 3-4

**Program Electives Enter Course Subject &Course Numbers and Titles**

\_\_\_\_ \_\_\_\_ Program Course -Titles 3-4

\_\_\_\_ \_\_\_\_ Program Course 3-4

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\_\_\_\_ \_\_\_\_ Program Course (if required) 3-4

\_\_\_\_ \_\_\_\_ Program Course (if required) 3-4

\_\_\_\_ \_\_\_\_ Program Course (if required) 3-4

**Total Minimum Credits:** \_**60**

**If offering program course options, please list options here under advising/program notes… Program notes (1)…(2)etc. Else, remove this statement.**

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# Associate in Applied Science in Mechanical Engineering Technology (A.A.S.)

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This program prepares students for entry-level employment in the field of mechanical engineering technology as well as transfer into baccalaureate programs leading to careers in the design, drafting, installation, manufacturing, testing, technical sales, maintenance, and other endeavors typically associated with mechanical components and systems. The flexibility offered by this program allows for entrance directly into the workforce or transfer into a BS in Mechanical Engineering Technology program.

Students who have completed the program will be able to: Apply knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities. Apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge. Conduct standard tests and measurements, and to conduct, analyze, and interpret experiments. Identify, analyze, and solve narrowly defined engineering technology problems. Apply written, oral, and graphical communication in both technical and non-technical environments with use of appropriate technical literature.

**Program Semester Sequence of Courses**

**First Semester - Fall Credits**

ENG 101 English Composition I 3

ENR 102 First Year Engineering Clinic I 2

MAT 107 Pre-calculus and Mathematical Analysis 4

PHY 103 General Physics 4

DFT 103 CAD I (AutoCAD) 3

**16**

**Second Semester - Spring**

ENG 102 English Composition II  **3**

MAT 108 Calculus I 4

ENR 103 First Year Engineering Clinic ll 2 PHY 104 General Physics II 4

ETEC 107 Circuits l 3 **16**

**Third Semester- Fall**

ENR 201 Sophomore Engineering Clinic l 1

ENR 211 Engineering Statics 3

ECO 101 Principles or Economics l (Macro) or

ECO 102 Principles or Economics ll (Micro) 3

CHM 111 General Chemistry l 4

ETEC 160 CNC Programming 4

**15**

**Forth Semester - Spring**

ENR 202 Sophomore Engineering Clinic ll 1

ENR 213 Dynamics 3

ETEC 218 Programmable Logic Controllers 3

SPE 101 Oral Communication 3

ENR 200 MATLAB Programming 3

**13**

**Total Minimum Credits:** **60**

**If offering program course options, please list options here under advising/program notes… Program notes (1)…(2)etc. Else, remove this statement.**