**ESSEX COUNTY COLLEGE**

**Course Outline**

**Student Learning Outcomes (SLO) Assessment Summary Sheet**

**Course Prefix & Number**: MTH 127 **Course Title**: Basic Calculus

**Credit Hours**: 4.0 **Contact Hours**: 4.0 **Name of Person Completing this Form**: Susan Gaulden

**Type of Course:** (Check **all** that apply.)

Developmental Not required for any program (not a major or additional requirement)/Other

AA program major requirement AS program major requirement AAS program major requirement

AA program additional requirement AS program additional requirement AAS program additional requirement

General Education affirmed course – if so, indicate the foundation category/ies the course is affirmed as addressing:

Written and Oral Communication Humanistic Perspective

Quantitative Knowledge and Skills Historical Perspective

Scientific Knowledge and Reasoning Global and Cultural Awareness of Diversity

Technological Competency/Information Literacy Ethics

Society and Human Behavior

**Student Learning Outcomes (SLOs)**:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Detailed Goal (SLO)** | **Assessment Method** | **Introduction (I) or**  **Mastery (M)**  **of SLO** |
| **Course Goals** | Demonstrate knowledge of the fundamental concepts and theories from pre-calculus, calculus, and introductory ordinary-differential equations. | Blueprinting questions on tests and exams  Surveying student perception of content/skill mastery | N/A |
| Utilize various pre-calculus, calculus, and introductory differential equation problem-solving and critical-thinking techniques to set up and solve applied problems in finance, economics, geometry, sciences, and other fields. | Blueprinting questions on tests and exams  Surveying student perception of content/skill mastery |
| Communicate accurate mathematical terminology and notation in written and/or oral form in order to explain strategies to solve problems as well as to interpret found solutions. |  |
| Use graphing calculators effectively as a tool to solve such problems as those described above. |  |
| **Program Goals\***  (if course is a major requirement) | N/A | N/A | N/A |
| **Gen Ed Goals\***  (if course is a Gen Ed course) | **Quantitative Knowledge and Skills**: Students will use appropriate mathematical and statistical concepts and operations to interpret data and to solve problems. |  | M |

**\*** addressed by **THIS** specific course