SUNY Broome General Education
Course Revision Form (For Current Gen Ed Courses)

I. Course Information/Signature Page

Date: 3/26/2020
Course Title: MAT 182 Calculus II
Proposed Course Title *(only for courses proposing new titles through Curriculum Committee)*:
Click here to enter proposed course title.
Department/Subject Designator: Mathematics
Number credits: 4
Pre-requisites/Co-requisites: MAT 181 Calculus I
Sponsor Proposer: T. Bremer
Sponsor Department(s): Mathematics
Cross-listed proposer (if applicable): Click here to enter cross-listed proposer.
Cross-listed department (if applicable): Click here to enter cross-listed department.
Effective semester/year of Proposed GE Addition: Fall 2020

Approvals		*Yes*	*No*
Sponsoring Department: (Chair signs for Department) [signature]	**Date** 27 Mar 2020	x	
Comments:			
Department Chair: [signature]	**Date** 27 Mar 2020	x	
Comments:			
Sponsoring Division: (Dean signs for Division) [signature]	**Date** 3-31-2020	✓	
Comments:			
Cross-listed Department (if applicable): (Chair signs for Department)	Date		
Comments:			
Cross-listed Division (if applicable): (Dean signs for Division)	Date		
Comments:			
These signatures will be obtained upon approval of the revisions to the General Education course			
General Education Committee: (Chair signs for Committee) [signature]	Date 5/1/20	✓	
Comments:			
Registrar:	Date		
Comments:			

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Approvals		*Yes*	*No*
EVP/CAO:	Date		
Comments:			

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SUNY Broome General Education Course Assessment Map & Plan
SUNY Broome GE Course SLO Alignment with SUNY-GER Course Alignment/SUNY Broome ILOs

Course Title and Number: Please list the course number and title here: Click here to enter text.

Course Modalities: Please list the modalities which the course is offered (in class, online, blended, Fast Forward). Please note, you are expected to assess across all modalities in which your course was offered at the time of assessment during your assessment schedule. Click here to enter text.

SUNY-GER Category: Please list the SUNY–GER category here by number (see below): *(01?) Mathematics*

SUNY GER Learning Outcomes: Please list the outcomes from the knowledge area to be covered here (please review Guidelines for the approval of State University Gen Ed Requirement Courses). Each outcome within the knowledge area proposed must be included and mapped to SUNY-GER learning outcomes.

Students will demonstrate:

1. interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics
2. represent mathematical information symbolically, visually, numerically and verbally
3. employ quantitative methods such as arithmetic, algebra, geometry, or statistics to solve problems
4. estimate and check mathematical results for reasonableness
5. recognize the limitations of mathematical and statistical methods

Assessment Schedule: Please list the assessment schedule here, including semester and year it will occur; if assessment is done each semester, please indicate this. *Spring 2021, Spring 2024, Spring 2027*

Which SUNY Broome ILO category do you believe your course maps to, if any? _Primarily 4: Scientific and Quantitative Reasoning_____

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SUNY Broome Course SLO *(every course SLO should be listed, as stated within the college catalogue & course syllabus)*	**SUNY-GER SLO** *(indicate which GER SLO is met; if none, write N/A)*	**Assessment Timeline** *(indicate the frequency in which assessment occurs, including semester and year within assessment cycle)* **All SLOs must be assessed at least once every 3 years*	**Learning Activity** *(indicate the learning activity used to assess the SLO)*	**Criteria for Success/ Benchmark** *(indicate the criteria used to assess SLOs & the benchmark for success)*
1. Employ various integration techniques and solve elementary differential equations.	1. employ quantitative methods such as arithmetic, algebra, geometry, or statistics to solve problems And 5. recognize the limitations of mathematical and statistical methods	Spring 2021, Spring 2024, Spring 2027	Relevant questions used on activities, quizzes or exams A scoring rubric will be used	Benchmark: 60% of the students in the categories of **completely correct or generally correct** as defined by the scoring rubric for the assessment

2. Analyze convergence behavior, create and use series.	1. interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics And 2. represent mathematical information symbolically, visually, numerically and verbally And 4. estimate and check mathematical results for reasonableness 5. recognize the limitations of mathematical and statistical methods	Spring 2021, Spring 2024, Spring 2027	Relevant questions used on activities, quizzes or exams A scoring rubric will be used	Benchmark: 60% of the students in the categories of **completely correct or generally correct** as defined by the scoring rubric for the assessment

6. Draw graphs and use Calculus on functions with alternate representations.	1. interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics And 2. represent mathematical information symbolically, visually, numerically and verbally 3. employ quantitative methods such as arithmetic, algebra, geometry, or statistics to solve problems	Spring 2021, Spring 2024, Spring 2027	Relevant questions used on activities, quizzes or exams A scoring rubric will be used	Benchmark: 60% of the students in the categories of **completely correct or generally correct** as defined by the scoring rubric for the assessment

7. Compute limits using L'Hopital's Rule.	3. employ quantitative methods such as arithmetic, algebra, geometry, or statistics to solve problems And 4. estimate and check mathematical results for reasonableness And 5. recognize the limitations of mathematical and statistical methods	Spring 2021, Spring 2024, Spring 2027	Relevant questions used on activities, quizzes or exams A scoring rubric will be used	Benchmark: 60% of the students in the categories of **completely correct or generally correct** as defined by the scoring rubric for the assessment
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