MATH&142 - Precalculus II

Document Type: Master Course Outline Supplemental
Proposal Type: Revision
Requester(s): Rick A Downs
College: South
Origination Approved: 06/11/2014 - 10:29 AM

BASIC INFORMATION

Requester(s): Rick A Downs

College: South Seattle Community College

Division/Dept: Academic Programs

Dean: Laura Kingston

Peer Reviewer(s): Ted Coskey
Bryan Johns

COLLEGE SUPPLEMENTAL

Proposed Quarter of Implementation: ☐ Request Provisional Exception

Class Capacity: 35

Modes of Delivery: (Check all that apply)

- ☑ Fully On Campus
- ☑ Fully Online
- ☑ Hybrid
- ☐ Other Explanation:

Select the Special Designation(s) this course will satisfy, if applicable:

(No Special Designations Selected)

Class Schedule Description:

Covers trigonometric and inverse trigonometric functions; right triangle and oblique triangle trigonometry; related trigonometry applications; and topics in analytic geometry. Fulfills the QSR requirement for A.A. degree. Prereq: Math& 141 with a 2.0 or higher or Placement test. Section 70 online fee, read https://sites.google.com/a/southseattle.edu/online/welcome-letter and contact the course instructor.

Student Learning Outcomes:

Computation

Use arithmetic and other basic mathematical operations as required by program of study

Apply quantitative skills for academic and career purposes

Critical Thinking and Problem-Solving

Think critically in evaluating information, solving problems, and making decisions

Technology

Select and use appropriate technological tools for academic and career tasks

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Program Outcomes:

SLO #	Included in Course Objective Number	SSCC Student Learning Outcomes
SLO 1.1		Communication - Read and listen actively to learn and comm
SLO 1.2		Communication - Speak and write effectively for academic a purposes.
SLO 2.1	1 - 9	Computation - Use arithmetic and other basic mathematical required by program of study.
SLO 2.2	1 - 9	Computation - Apply quantitative skills for academic and car
SLO 3.1		Human Relations - Use social skills to work in groups effecti
SLO 3.2		Human Relations – Have knowledge of the diverse cultures r our multicultural society.
SLO 4.1	1 - 9	Critical Thinking—Think critically in evaluating information, s problems, and making decisions.
SLO 5.1	1 - 9	Technology - Select and use appropriate technological tools and career tasks.
SLO 6.1		Personal Responsibility – Uphold the highest standards of ac honesty and integrity.
SLO 6.2		Personal Responsibility – Respect the rights of others in the online, and in all other school activities.
SLO 6.3		Personal Responsibility – Attend class regularly, complete as time, and effectively participate in classroom and online disc work, and other class-related projects and activities.
SLO 6.4		Personal Responsibility – Abide by appropriate safety rules ir shops, and classrooms.
SLO 7.1		Information Literacy—Independently access, evaluate, and s information from a variety of appropriate sources.
SLO 7.2		Information Literacy – Have knowledge about legal and ethi related to the use of information
SLO 7.3		Information Literacy - Use information effectively and ethica specific purpose.

Course Outcomes / Objectives:

Upon successful completion of this course the student will be expected to:

1. Compute the values of the six trigonometric functions for key angles measured in both degrees and radians.

2. Graph all six trigonometric functions and their transformations.
3. Use the basic trigonometric identities to verify other trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Plot points and graph equations in the Polar Coordinate system.
7. Graph pairs of parametric equations.
8. Use the concepts of trigonometry to solve applied problems.
9. Perform basic vector operations graphically and algebraically in both rectangular and polar coordinates.

Explain the student demand for the course and potential enrollment:

Six classes are offered of this course each year.

Explain why this course is being revised:

This is not a new course, it is updating the outline of an existing course.

What challenges, if any, do you foresee in offering this course:

None.

This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

Rick A Downs	*Rick A Downs*	6/5/2014
Print Name	**Signature**	**Date**

Dean:

Laura Kingston	*Laura Kingston*	6/4/2014
Print Name	**Signature**	**Date**

Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

[X] Recommended for approval

[ ] Not recommended for approval

Chairman, Curriculum Coordinating Council:

Diane Schmidt	*Diane Schmidt*	6/10/2014
Print Name	**Signature**	**Date**

Vice President for Instruction:

Donna Miller-Parker	*Donna Miller-Parker*	6/11/2014
Print Name	**Signature**	**Date**