

M126 TRIGONOMETRIC FUNCTIONS
Indiana University Southeast
Revised Summer 2008

Coordinator for Mathematics (lower level): Phillip Miller
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Course Number and Name: M126 – Trigonometric Functions
Credit Hours: 2 or 3 hours
Prerequisites or Concurrent: M125 Pre-Calculus or equivalent

Course Objectives: By the end of this course, students should be able to:

- Use the definitions and identities of the trigonometric functions
- Solve right triangle and oblique triangle problems
- Use radian measure
- Graph circular functions
- Solve trigonometric equations

Textbook: Trigonometry by Lial, Hornsby, and Schneider, 9th Edition,
Pearson Education- Addison-Wesley, 2009 ISBN: 0-321-52885-9

Chapter	Section
1	1 - 4: Trigonometric Functions
2	1 - 5: Acute Angles and Right Triangles
3	1 - 4: Radian Measure and Circular Functions
4	1 - 4: Graphs of the Circular Functions
5	1 - 6; Trigonometric Identities <i>For Purdue sections: minimize coverage to allow complete coverage of vectors.</i>
6	1 - 4: Inverse Circular Functions and Trigonometric Equations
7	1 and 3: Law of Sines, Law of Cosines; <i>For Purdue sections: required coverage of 7-4, 7-5 : Vectors and their applications</i>

Grading: Each instructor may choose a grading scheme that best suits his/her particular teaching style and class temperament.

There is not a departmental final exam for M126. The instructor can write their own final exam.

Note: Chapters 5 and 6 seem to be the most difficult for students. The schedules below separate them so that Exam 3 does not include both. Feel free to rearrange the schedule as you prefer.

A graphing calculator should NOT be allowed on exams. The upper level math department will not allow them to be used on exams in M215, and since M126 is a prerequisite we need to prepare students for that. Be aware that some scientific calculators will give “exact” trig values and simplify radicals.

Students with Disabilities: If you have specific physical, psychological or learning disabilities and require accommodations, please let me know early in the semester so that your learning needs may be appropriately met. You will need to provide documentation of your disability to the Coordinator of Disability Services located in University Center South, Room 203, 941-2243. Additional information about the Office of Services for Students with Disabilities may be obtained at: <http://www.ius.edu/ASC/DisabilityServices/>

Attendance Policy: Attendance is a key factor in academic success. Class attendance is required. Illness is usually the only acceptable excuse for absence from class. Other absences must be explained to the satisfaction of the instructor, who will decide whether missed assignments may be made up. A student absent from class bears full responsibility for all material covered in class. *Individual instructors can include particular requirements and/or penalties for absences.*

Help Outside of Class:

- **Math Lab:** Location: Life Sciences, Room 101; 941-2670. Students may walk in and use the facilities at any time (free of charge) without an appointment. Tutor schedule is online at <http://www.ius.edu/mathlab/> and the bulletin board by the lab.
- **Private Tutors:** Please visit the Student Development Center, University Center South 203, to sign-up for a tutor. Most students get a tutor within 24 hours. The cost is \$5.00 per hour (non-refundable) and must be paid for in advance. For more information go to: <http://www.ius.edu/sdc/main/assist1.htm>

Bad Weather Policy: When there is bad weather in the area, a decision is made about whether the campus should be closed or open on a delayed schedule as soon as possible. The decision is independent of the decisions of school corporations and the other colleges in the area. Off-campus classes do not meet if campus is closed or if the school building in which they are held is closed.:

Delay Schedule: Monday through Friday classes:

8 a.m. classes meet from 10 a.m. until 10:55 a.m.

9:30 a.m. classes meet from 11 a.m. until 11:55 a.m.

11 a.m. classes meet from 12 noon until 12:55 p.m.

Other classes meet at regular times.

Saturday Classes:

Morning classes meet from 10:30 a.m. until 12 noon.

Afternoon classes meet at regular times.

Sample Schedule

This is just a possible schedule. You may change it as you like as long as you cover the required sections as listed above.

IU Southeast Sections

Purdue Technology Sections

Date	Section		Date	Section
1	1.1		1	1.1
	1.2			1.2
2	1.3		2	1.3
3	1.4		3	1.4
4	2.1		4	2.1
5	2.2		5	2.2
6	2.3		6	2.3
	2.4			2.4
7	2.5		7	2.5
8	Review		8	Review
9	Exam 1		9	Exam 1
10	3.1		10	3.1
	3.2			3.2
11	3.3		11	3.3
12	3.4		12	3.4
13	5.1		13	4.1
	5.2			4.2
14	5.3		14	4.3
				4.4
15	5.4		15	Review
16	5.5		16	Exam 2
	5.6		17	6.1
17	Review		18	6.2
18	Exam 2			6.3
19	4.1		19	6.4
	4.2		20	7.1
20	4.3		21	7.3
	4.4		22	7.4
21	6.1		23	7.5
22	6.2		24	Review
	6.3		25	Exam 3
23	6.4		26	5.1
24	Review			5.2
25	Exam 3			5.3
26	7.1		27	5.4
27	7.3			5.5
28	Review			5.6
29	Final Exam		28	Review
			29	Final Exam