



Your University of Choice

COURSE SYLLABUS

Term: Spring, 2016

Math 104B -Algebra and Trigonometry

Instructor Information:	
Instructor Name	Br. Benjamin Basile, C.P.P.S.
Office Number:	303
Phone Number:	(219) 473-4280
Email:	bbasile@ccsj.edu
Office Hours:	M: 9-10:15 am, 3:15-4:30 pm; Tu/Th: 1:00-4:30 pm; W:(9:00-10:15 am, 1:00-1:45 pm, 3:15-4:30pm. Other times by appointment. Please note that committee meetings, etc. may make it impossible to always be available at the above times. Please call or email.
Instructor Background: Member of the Precious Blood Missionaries, the religious order which founded and sponsors CCSJ; M.S. in Mathematics from the University of Notre Dame; 30 graduate hours in Education from the University of Akron; 11 years as a high school math instructor (3 as a Principal); 34 years at CCSJ in computer, as Registrar and in math (12 years as head of math).	

Course Information:	
Course Time:	Tuesday and Thursday, 8:30-10:00 am
Classroom:	305
Prerequisites:	MATH 103 with a grade of 'C' or better, or an equivalent Accuplacer© score.
Required Books and Materials:	1) Textbook: Beecher, Penna, Bittinger; <u>Algebra and Trigonometry</u> ; 4 th ed, Pearson ISBN: 9780321693983 2) Scientific Calculator
Learning Outcomes/ Competencies: Through appropriate assessments students will demonstrate that they are able to: 1. Remember the necessary steps and procedures for manipulating, simplifying, and solving: polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, and the laws of sine's and cosines. 2. Understand what each procedure, manipulation, simplification, and solution means on a conceptual level. 3. Apply their understanding of polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, and the laws of sine's and cosines to solve application problems. 4. Analyze problems in physics, economics, business, and biology to determine appropriate methods for solving them using algebra skills and concepts.	

5. Evaluate proposed solutions with respect to commonly accepted practices used in physics, economics, business, and biology.
Course Description: This course is designed to prepare students for the standard calculus sequence. Topics include polynomial and rational functions, exponential and logarithmic functions, trigonometric functions, and the laws of sines and cosines.
Learning Strategies: Group discussions, lecture, lots of practice via written and on-line assignments. Active participation in class and utilization of resources such as Blackboard and the CCSJ Student Success Center will help ensure your success
Experiential Learning Opportunities: Application problems will be used in each chapter of the course.

Assessments:									
Assignments and tests:	<p>Mathematics is a participation sport! Thus, written and on-line assignments are an integral part of the learning process. Working problems is crucial to your success. Collecting assignments and giving points for them are meant to serve as an incentive. On written assignments, problems should be numbered and adequate work shown for each, with answers clearly marked. <u>Correct answers without accompanying work, where appropriate, will not be given credit.</u> To receive full credit, <u>work should be neat, organized and complete,</u> and should include the student's name, date and class on each page. DO NOT SKIP ANY PROBLEMS. Be sure to <u>give yourself enough time to complete the written and on-line assignments</u> and to get help if needed. LATE ASSIGNMENTS WILL NOT BE ACCEPTED.</p> <p>ASSIGNMENTS AND CLASS SCHEDULE ARE SUBJECT TO CHANGE AND WILL ALWAYS BE ANNOUNCED IN CLASS AND POSTED ON BLACKBOARD.</p> <p>On-line (IXL) assignments will be due each week (see posted dates on Blackboard) You MUST do at least 12 problems in each section of the assignments, but can AND SHOULD do more (before the due date and time) to raise your on-line (IXL) assignment score. <u>GO FOR 100'S!</u></p> <p><u>It is expected that you will spend 3-5 hours outside of class each week practicing math, as you MUST practice to succeed.</u> <u>NO LATE HOMEWORK (WRITTEN OR ON-LINE) WILL BE ACCEPTED, SO PLAN ACCORDINGLY. IF YOU MUST BE ABSENT ON THE DAY A HOMEWORK ASSIGNMENT IS DUE, YOU MAY TURN IT IN EARLY</u></p>								
	<p>Several <u>chapter tests</u> will be given during the term and <u>one comprehensive final exam</u> during exam week. Written and on-line (IXL) assignments will also constitute part of the final grade.</p> <table style="margin-left: 40px;"> <tr> <td>Chapter tests</td> <td>40% of grade</td> </tr> <tr> <td>Comprehensive final exam</td> <td>25% of grade</td> </tr> <tr> <td>Written assignments</td> <td>15% of grade</td> </tr> <tr> <td>On-line (IXL) assignments</td> <td>20% of grade</td> </tr> </table> <p>Grading Scale: (given as a percent of total possible points)</p>	Chapter tests	40% of grade	Comprehensive final exam	25% of grade	Written assignments	15% of grade	On-line (IXL) assignments	20% of grade
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	A: 93-100 A-: 90-92 B+: 87-89 B: 83-86 B-: 80-82 C+: 77-79 C: 73-76 C-: 70-72 D+: 67-69 D: 63-66 D-: 60-62 F: below 60	
Course schedule:	ASSIGNMENTS AND CLASS SCHEDULE ARE SUBJECT TO CHANGE AND WILL ALWAYS BE ANNOUNCED IN CLASS AND POSTED ON BLACKBOARD.	

Responsibilities	
Attending Class	<p>You cannot succeed in this class if you do not attend. We believe that intellectual growth and success in higher education occur through interaction in the classroom and laboratories. However, we do not want to penalize students for participating in college-sponsored events. When you miss class because of a college event, you must give notice of your absence in advance, and you are responsible for all missed work. Being absent doesn't excuse you from doing class work; you have more responsibilities to keep up and meet the objectives of this course.</p> <p style="text-align: center;"><i>Eighty percent of success is showing up.</i> -Woody Allen</p> <p>Attendance is important and is expected (see "participation sport" message under Assignments, above). You are responsible for all material covered in class, including announcements of assignments and quizzes. <u>IF YOU MISS CLASS, YOU MUST CONTACT THE INSTRUCTOR BY E-MAIL (bbasile@ccsj.edu) OR PHONE WITHIN 24 HOURS, TO AVOID THE ASSESSMENT OF A FIVE (5) POINT PENALTY FOR EACH MISSED CLASS.</u> The instructor is more than willing to meet you halfway on this, but remember that there are TWO halves. Your lowest CHAPTER EXAM score (NOT final exam score) will be dropped. If you are absent on the day of an exam, that will be your dropped exam score. There are ABSOLUTELY NO make-up exams for any reason. That is why your lowest chapter exam score is dropped. If you have an athletic competition or other important appointment, send me an electronic notice at least 48 hours in advance and you can take the exam BEFORE your absence.</p>
Turning In Your Work	You cannot succeed in this class if you do not turn in all your work on the day it is due. <u>LATE ASSIGNMENTS WILL NOT BE ACCEPTED.</u>
Using Electronic Devices	As a matter of courtesy, electronic communication devices should be switched off; <u>texting is out of place.</u> In the event of necessity for answering a cell phone during class, please inform the instructor ahead of time and set the device to "vibrate", if possible, and answer it in the hallway. Use of laptops and tablets must be for class purposes only. NO ELECTRONIC DEVICES OTHER THAN CALCULATORS (BUT NOT THOSE ON PHONES) ARE ALLOWED DURING TESTS.

Participating in Class	Be on time and use the time for active participation with the material, asking questions and working problems.
Doing Your Own Work	If you turn in work that is not your own, you are subject to judicial review, and these procedures can be found in the College Catalog and the Student Planner. The maximum penalty for any form of academic dishonesty is dismissal from the College.
Withdrawing from Class	After the last day established for class changes has passed (see the College calendar), you may withdraw from a course by following the policy outlined in the CCSJ Course Catalog.

Resources	
Student Success Center:	The Student Success Center provides faculty tutors at all levels to help you master specific subjects and develop effective learning skills. It is open to all students at no charge. You can contact the Student Success Center at 219 473-4287 or stop by the Library.
Disability Services:	Disability Services strives to meet the needs of all students by providing academic services in accordance with Americans with Disabilities Act (ADA) guidelines. If you believe that you need a “reasonable accommodation” because of a disability, contact the Disability Services Coordinator at 219-473-4349.
CCSJ Alerts:	<p>Calumet College of St. Joseph’s emergency communications system will tell you about emergencies, weather-related closings, or other incidents via text, email, or voice messages. Please sign up for this important service annually on the College’s website at: http://www.ccsj.edu/alerts/index.html.</p> <p>In addition, you can check other media for important information, such as school closings:</p> <p>Internet: http://www.ccsj.edu Radio: WAKE – 1500 AM, WGN – 720 AM, WIJE – 105.5 FM, WLS – 890 AM, WZVN – 107.1 FM, WBBM NEWS RADIO 78 TV Channels: 2, 5, 7, 9, 32</p>

Missionaries of the Precious Blood (Br. Ben’s religious order)

Visit our websites: www.cpps-preciousblood.org and <http://cppsmissionaries.org>

Find us on Facebook at Missionaries of the Precious Blood

Follow us on Twitter: @CPPSGaspar

MATH 104 B - PROBLEM SETS
Due as announced in class and posted on Blackboard.
(As of January 12 – to be continued...)

Written, textbook assignments.

Chapter R [Due with first chapter test]
pp. 56-57, #1-38

Chapter 1 [Due with first chapter test]
PP. 154-156, #1-41

Chapter 2 [Due as announced]
PP. 231-232, #1-39

[...to be continued.]

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On-line (IXL) assignments. Login at www.ixl.com/signin/calumetcollege

On-line (IXL) Assignment # 1 [DUE 10pm (C.S.T.) Wednesday, January 20]
#1 – Pre-Calculus (PC): A.1, A.4, A.5, E.2, H.4

[...to be continued.]

Emergency Procedures

MEDICAL EMERGENCY

EMERGENCY ACTION

1. Call 911 and report incident.
2. Do not move the patient unless safety dictates.
3. Have someone direct emergency personnel to patient.
4. If trained: Use pressure to stop bleeding.
5. Provide basic life support as needed.

FIRE

EMERGENCY ACTION

1. Pull alarm (located by EXIT doors).
2. Leave the building.
3. Call 911 from a safe distance, and give the following information:
 - Location of the fire within the building.
 - A description of the fire and how it started (if known)

BUILDING EVACUATION

1. All building evacuations will occur when an alarm sounds and/or upon notification by security/safety personnel. **DO NOT ACTIVATE ALARM IN THE EVENT OF A BOMB THREAT.**
2. If necessary or if directed to do so by a designated emergency official, activate the building alarm.
3. When the building evacuation alarm is activated during an emergency, leave by the nearest marked exit and alert others to do the same.
4. Assist the disabled in exiting the building! Remember that the elevators are reserved for persons who are disabled. **DO NOT USE THE ELEVATORS IN CASE OF FIRE.** **DO NOT PANIC.**
5. Once outside, proceed to a clear area that is at least 500 feet away from the building. Keep streets, fire lanes, hydrant areas and walkways clear for emergency vehicles and personnel. The assembly point is the sidewalk in front of the college on New York Avenue.
6. **DO NOT RETURN** to the evacuated building unless told to do so by College official or emergency responders.

IF YOU HAVE A DISABILITY AND ARE UNABLE TO EVACUATE:

Stay calm, and take steps to protect yourself. If there is a working telephone, call 911 and tell the emergency dispatcher where you are **or** where you will be moving. If you must move,

1. Move to an exterior enclosed stairwell.
2. Request persons exiting by way of the stairway to notify the Fire Department of your location.
3. As soon as practical, move onto the stairway and await emergency personnel.
4. Prepare for emergencies by learning the locations of exit corridors and enclosed stairwells. Inform professors, and/or classmates of best methods of assistance during an emergency.

HAZARDOUS MATERIAL SPILL/RELEASE

EMERGENCY ACTION

1. Call 911 and report incident.
2. Secure the area.
3. Assist the injured.
4. Evacuate if necessary.

TORNADO

EMERGENCY ACTION

1. Avoid automobiles and open areas.
2. Move to a basement or corridor.
3. Stay away from windows.
4. Do not call 911 unless you require emergency assistance.

SHELTER IN PLACE

EMERGENCY ACTION

1. Stay inside a building.
2. Seek inside shelter if outside.
3. Seal off openings to your room if possible.
4. Remain in place until you are told that it is safe to leave.

BOMB THREATS

EMERGENCY ACTION

1. Call 911 and report incident.
2. If a suspicious object is observed (e.g. a bag or package left unattended):
 - Don't touch it!
 - Evacuate the area.

TERRORISM AND ACTIVE SHOOTER SITUATIONS

EMERGENCY ACTION

1. Call 911 and report intruder.

RUN, HIDE OR FIGHT TIPS:

1. **Prepare** – frequent training drills to prepare the most effectively.
2. **Run and take others with you** – learn to stay in groups if possible.
3. **Leave the cellphone.**
4. **Can't run? Hide** – lock the door and lock or block the door to prevent the shooter from coming inside the room.
5. **Silence your cellphone** -- use landline phone line.
6. **Why the landline?** It allows emergency responders to know your physical location.
7. **Fight** – learn to “fight for your life” by utilizing everything you can use as a weapon.
8. **Forget about getting shot – fight!** You want to buy time to distract the shooter to allow time for emergency responders to arrive.
9. **Aim high** – attack the shooter in the upper half of the body: the face, hands, shoulder, neck.
10. **Fight as a group** – the more people come together, the better the chance to take down the shooter.
11. **Whatever you do, do something** – “react immediately” is the better option to reduce traumatic incidents.