Calumet College of Saint Joseph

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Calumet College of St. Joseph is a Catholic institution of higher learning dedicated to the academic, spiritual and ethical development of undergraduate and graduate students. Informed by the values of its founding religious community, the Missionaries of the Precious Blood (C.PP.S.), the College promotes the inherent dignity of all people, social justice, an ethic of service, student empowerment, opportunity, and lifelong learning.

COURSE SYLLABUS, Fall, 2018

Course: MATH 103A Intermediate Algebra

Instructor Information:	
Instructor Name	Br. Benjamin Basile, C.PP.S.
Office Number:	303
Phone Number:	219-473-4280
Email:	bbasile@ccsj.edu
Hours Available:	M/W: 9:00 – 10:15 a.m., 3:15 – 4:30 p.m. Tu/Th: 9:00 – 11:30 a.m., 3:15 – 4:30 p.m. • Please note that meetings and appointments can affect these hours. • Additional office hours are available by appointment
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; graduate study in computer science at DePaul Univ.; 11 years as a high school math instructor (3 as a Principal); 37 years at CCSJ in computer, as Registrar, and in math (12 years as head of math).	

Class Schedule: see pp. 6-11

Course Information	
Course Time:	**Tuesday and Thursday 10:15 – 11:45 AM**
Classroom:	TBD (see published classroom schedule at beginning of term)
Prerequisites:	MATH 097 with a grade of 'C' or better, or an equivalent Accuplacer score
Required Books and Materials:	1) Lial, Hornsby, McGinnis Intermediate Algebra, 10th edition, Pearson, 2014 ISBN: 9780321872180 2) Hand-held 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: algebraic expressions, exponents, polynomials, graphs, inequalities, absolute value, linear and quadratic expressions, systems of equations, rational expressions, and logarithms.

2. **Understand** what each procedure, manipulation, simplification, and solution means on a conceptual level.

3. **Apply** their understanding of algebraic expressions, exponents, polynomials, graphs, inequalities, absolute value, linear and quadratic expressions, systems of equations, rational expressions, and logarithms 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.

Course Description: This course treats algebraic expressions, exponents, polynomials, graphing, inequalities, absolute value, linear and quadratic expressions, and systems of equations, applications, rational expressions, and logarithms.

Learning Strategies:
Group discussions, lecture, IXL software, and lots of practice. The objective is to promote your understanding of mathematics concepts and to enable you to apply them in a meaningful way. You are encouraged to rely on logical thinking, rather than on memorization. It is VERY important that you READ the sections of the textbook, STUDY the examples and WORK problems. **Active participation in class** and utilization of services such as the CCSJ Student Success Center will help ensure your success.

It is also suggested that you utilize Khan Academy for additional help on homework outside of the classroom. **http://www.khanacademy.org/math/algebra**

Experiential Learning Opportunities:
Applications of the course objectives

Assessments:

Exams:	Four chapter exams (R – 2, 3 – 5, 6 – 7, 8 – 10)	40 % of grade
Cumulative Final Exam:	Chapter R – Chapter 10	20% of grade
In Class Assignments	Assigned Weekly in Class	10% of grade
Textbook Homework:	Assigned Weekly per schedule	15 % of grade
IXL Homework:	Assigned Weekly per schedule	15% of grade

Grading Scale:		
92 - 100: A 88 – 89: B+ 78 – 79 : C+ 68 – 69: D+ below 60	90 – 91: A- 82 – 87: B 72 – 77: C 62 – 67: D F	80 – 81: B- 70 – 71 : C- 60 – 61: D-

Responsibilities	
Attending Class	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. ***Eighty percent of success is showing up.*** -Woody Allen Attendance is important and is expected. You are responsible for all material covered in class, including announcements of assignments and quizzes. If you miss class, you must contact the instructor by email (chutton@ccsj.edu) within 24 hours. The instructor is more than willing to meet you halfway on this, but remember that there are TWO halves. You are allowed to miss 2 classes, without penalty. After that, every class that you are absent from will result in a one (1) percentage point loss from your final grade. You should 'save' your two absences for emergencies. If you are more than 15 minutes late to class, that will count as an absence. BE PRESENT, BE ON TIME.
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. Late homework is not accepted for any reason, under any circumstances. If you are absent on the day that work is due on paper, please scan it and email it to the instructor.
CCSJ Student Honor Code	This course asks students to reaffirm the CCSJ Student Honor Code: I, as a student member of the Calumet College academic community, in accordance with the college's mission and in a spirit of mutual respect, pledge to: • Continuously embrace **honesty and curiosity** in the pursuit of my educational goals; • Avoid all behaviors that could impede or distract from the academic progress of myself or other members of my **community**;

	• Do my own work with **integrity** at all times, in accordance with syllabi, and without giving or receiving inappropriate aid; • Do my utmost to act with commitment, inside and outside of class, to the goals and **mission** of Calumet College of St. Joseph.
Using Electronic Devices	Electronic devices are out of place in the classroom. Please keep them silent and put away during class. Additionally, **NO ELECTRONIC DEVICES OF ANY KIND, OTHER THAN HAND-HELD CALCULATORS (NO PHONES), MAY TO BE USED ON QUIZZES OR EXAMS.**
Participating in Class	**Tests and In Class Assignments:** • Four chapter tests will be given during the term and one comprehensive final exam during exam week. • You will be allowed to use one piece of paper (8 ½ x 11), one side only, of notes on your chapter tests. • You will be allowed to use one piece of paper (8 ½ x 11), both sides, of notes on your final exam. • You will be allowed to use a calculator on all exams. • You will NOT be allowed to use any electronic devices on an exam (i.e. phone, tablet, etc.). • **Please note that you MUST pass your exams to pass this course.** • Thoughtful completion of your homework should be done to practice and prepare for your exams. • You are allowed to drop your lowest chapter test score (NOT final exam). There are absolutely **NO** makeup exams, for any reason so if you are absent on the day of an exam, that will be your dropped score. If you know of a planned absence in advance, you can take the exam BEFORE the scheduled exam date. • In class assignments cannot be made up, but your two lowest scores will be dropped. In class assignments will not be announced ahead of time. **Written homework assignments and IXL homework assignments:** • Homework is critical to your success in this course. The written homework and IXL homework are meant to serve as practice for the exams. • Your written homework should be neat and organized. Problems should be copied from the book and all necessary work should be shown. **Answers without work will not be given credit.** All written homework from the textbook will be due when you take your exams. • IXL homework will be due each week (see calendar for due dates). You MUST do at least 12 problems in each assignment, but can do more (before the due date) to raise your IXL homework score.

	• It is expected that you will spend 3 – 5 hours outside of class each week practicing math. You must practice to succeed. • NO LATE HOMEWORK will be accepted, for any reason, period. You are welcome to turn it in early, but never late.
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. Using standard citation guidelines, such as MLA or APA format, to document sources avoids plagiarism. The Library has reference copies of each of these manuals, and there are brief checklists in your Student Handbook and Planner. **PLEASE NOTE:** All papers may be electronically checked for plagiarism.
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.
Tracking Your Progress	Your midterm grade will be available on MyCCSJ between Weeks 6 and 8. Be sure to see how you're doing and follow up with your instructor.
Sharing Your Class Experience	At the end of the term, you will have the opportunity to evaluate your classroom experience. These confidential surveys are ***essential*** to our ongoing efforts to ensure that you have a great experience that leaves you well prepared for your future. Take the time to complete your course evaluations – we value your feedback!

Resources	
CCSJ Textbook Rental Program	The CCSJ Book Program ensures that everyone has the right course materials on the first day of class to be successful. You pay a book rental fee each semester, and in return, receive all the materials for all your classes prior to the beginning of classes. At the end of the semester, simply return the books. For traditional students, the Book Rental Program is conveniently located in the library, where students can pick up and return their books. For students in accelerated programs and graduate programs, books will be delivered to their homes and they can return them by mail. For more information, see http://www.ccsj.edu/bookstore. **All books must be returned at the end of the semester or you will incur additional fees, which will be charged to your student account.**
Student Success (Tutoring) 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.

Student Assistance Program (SAP)	Through a partnership with **Crown Counseling,** Calumet College of St. Joseph provides a free Student Assistance Program (SAP) to current students. The SAP is a confidential counseling service provided to students for personal and school concerns which may be interfering with academic performance and/or quality of life. The SAP counselor is available on campus once a week and off-site at the Crown Counseling offices in Crown Point or Hammond. For more information, **contact Kerry Knowles SAP Counselor,** at 219-663-6353 (office), 219-413-3702 (cell), or kerryk@crowncounseling.org
CCSJ Alerts:	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.

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: @CPPSCiincinnati

Class Schedule [Subject to change, as announced in class and on Blackboard.]

Date	Topic	Homework Assigned	Homework Due Date/Time
8 - 28-18	Introduction to class Chapter R: Review of the Real Number System	Textbook (TB) p.44 #1-15 all IXL Algebra I: **A.6** – Square Roots **A.7** – Cube Roots **A.8** – Classify Numbers **B.2** – Evaluate Numerical Expressions involving Integers **B.7** – Evaluate Variable Expressions using Rational Numbers	9-13-18 at the beginning of class (Exam I) 9-3-18 by 10 pm
8-30-18	Chapter R: Review of the Real Number System	IXL Algebra I: **H.1** – Properties of Addition and Multiplication **H.2** – Distributive Property **H.4** – Properties of Equality	9-3-18 by 10 pm
9-4-18	Chapter 1: Linear Equations and Applications	TB p. 106 #1-18 all IXL Algebra I: **J.8** – Find the number of solutions **J.10** – Solve Linear Equations, Word Problems **(cont.)**	9-13-18 at the beginning of class (Exam I) 9-10-18 by 10 pm

		J.11 – Solve Linear Equations, Mixed Review **G.1** – Coordinate Plane Review **H.3** – Simplify Variable Expressions using Properties	
9-6-18	Chapter 1: Linear Equations and Applications Chapter 2: Linear Inequalities and Absolute Value	TB p. 156 #1-22 all IXL Algebra I: **K.2** – Write Inequalities from Graphs **K.11** – Graph Solutions to Advanced Linear Inequalities **K.13** – Write Compound Inequalities from Graphs **K. 15** – Graph Solutions to Compound Inequalities	9-13-18 at the beginning of class (Exam I) 9-10-18 by 10 pm
9-11-18	Chapter 2: Linear Inequalities and Absolute Value	IXL Algebra I: **L.2** – Graph Solutions to Absolute Value Equations **L.4** – Graph Solutions to Absolute Value Inequalities	9-17-18 by 10 pm
9-13-18	**Exam I (Chapter R – Chapter 2)**	None	All Textbook homework is due TODAY, at the BEGINNING of class. NO LATE HOMEWORK will be accepted.
9-18-18	Chapter 3: Graphs, Linear Equations, and Functions	TB p. 237 #1-22 all IXL Algebra I: **S.3** – Find Slope from Two Points **S.6** – Slope Intercept Form, Graph an Equation **S.7** – Slope-Intercept Form: Write an Equation from a Graph **S.11** – Linear Equations: Solve for y **S.15** – Write Equations in Standard Form	10-11-18 at the beginning of class (Exam II) 9-24-18 by 10 pm
9-20-18	Chapter 3: Graphs, Linear Equations, and Functions	IXL Algebra I: **S.16** – Standard Form, Find x- and y- Intercepts **S.17** – Standard Form, Graph an Equation **S.19** – Graph a Horizontal or Vertical Line **(cont.)**	9-24-18 by 10 pm

		S.21 – Point-Slope Form: Write an Equation	
9-25-18	Chapter 3: Graphs, Linear Equations, and Functions	IXL Algebra I: **S.23** – Slopes of Parallel and Perpendicular Lines **S.24** – Write an Equation for a Parallel or Perpendicular Line **T.3** – Graph two variable inequalities **T. 4** – Linear Inequalities Word Problems	10-1-18 by 10 pm
9-27-18	Chapter 4: Systems of Linear Equations	TB p. 287 #1-16 all IXL Algebra I: **U.1** – Is (x,y) a Solution to the System? **U.2** – Solve a System of Equations by Graphing **U.8** – Solve a System of Equations using Substitution **U.10** – Solve a System of Equations using Elimination	10-11-18 at the beginning of class (Exam II) 10-1-18 by 10 pm
10-2-18	Chapter 5: Exponents, Polynomials, and Polynomial Functions	TB p. 346 #1-22 all IXL Algebra I: **V.6** – Multiplication and Division with Exponents **V.8** – Evaluate Expressions using Properties of Exponents	10-11-18 at the beginning of class (Exam II) 10-8-18 by 10 pm
10-4-18	Chapter 5: Exponents, Polynomials, and Polynomial Functions	TB p. 348 #1-35 all IXL Algebra I: **W.1** – Convert Between Standard and Scientific Notation **Z.4** – Add and Subtract Polynomials **Z.8** – Multiply Two Binomials	10-11-18 at the beginning of class (Exam II) 10-8-18 by 10 pm

10-9-18	Chapter 5: Exponents, Polynomials, and Polynomial Functions	IXL Algebra I: **Z.10** – Multiply Polynomials **GG.5** – Divide Polynomials	10-15-18 by 10 pm
10-11-18	**Exam II (Chapter 3 – Chapter 5)**	None	All Textbook homework is due TODAY, at the BEGINNING of class. NO LATE HOMEWORK will be accepted
10-16-18	Chapter 6: Factoring	TB p. 391 #1-22 all IXL Algebra I: **AA.1** – GCF of Monomials **AA.2** – Factor out a Monomial **AA.7** – Factor by Grouping	11-6-18 at the beginning of class (Exam III) 10-22-18 by 10 pm
10-18-18	Chapter 6: Factoring	IXL Algebra I: **AA.4** – Factor Quadratics with Leading Coefficient of 1 **AA.5** – Factor Quadratics with other Leading Coefficients	10-22-18 by 10 pm
10-23-18	Chapter 6: Factoring	IXL Algebra I: **AA.6** – Factor Quadratics: Special Cases **AA.8** – Factor Polynomials **BB.7** – Solve a Quadratic Equation by Factoring	10-29-18 by 10 pm
10-25-18	Chapter 6: Factoring		
10-30-18	Chapter 7: Rational Expressions and Functions	TB p. 463 #1-25 all IXL Algebra I: **GG.2** – Simplify Complex Fractions **GG.3** – Simplify Rational Expressions **GG.4** – Multiply and Divide Rational Expressions	11-6-18 at the beginning of class (Exam III) 11-5-18 by 10 pm
11-1-18	Chapter 7: Rational Expressions and Functions	IXL Algebra I: **GG.6** – Add and Subtract Rational Expressions **GG.7** – Solve Rational Equations **(cont.)**	11-5-18 by 10 pm

		R.5 – Write and Solve Direct Variation Equations **R.8** – Write and Solve Inverse Variation Equations	
11-6-18	**Exam III (Chapter 6 – Chapter 7)**	None	All Textbook homework is due TODAY, at the BEGINNING of class. NO LATE HOMEWORK will be accepted
11-8-18	Chapter 8: Roots, Radicals, and Root Functions	TB p. 541 #1-29 all IXL Algebra I: **EE.8** – Simplify Radical Expressions Mixed Review **FF.1** – Evaluate a Radical Function	12-6-18 at the beginning of class (Exam IV) 11-12-18 by 10 pm
11-13-18	Chapter 8: Roots, Radicals, and Root Functions	IXL Algebra I: **FF.5** – Solve Radical Equations II IXL Algebra II: **H.6** – Add, Subtract, Multiply, and Divide Complex Numbers **M.6** – Simplify Expressions Involving Rational Exponents II	11-26-18 by 10 pm 11-26-18 by 10 pm
11-15-18	Chapter 9: Quadratic Equations, Inequalities, and Functions (ONLY 9.1 and 9.2)	TB p. 627 #1-19 all IXL Algebra I: **BB.1** – Characteristics of Quadratic Functions **BB.2** – Complete a Function Table: Quadratic Functions **BB.5** – Solve a Quadratic Equation Using Square Roots **BB.6** – Solve an Equation using the Zero Product Property	12-6-18 at the beginning of class (Exam IV) 11-26-18 by 10 pm

11-20-18	No Class – Thanksgiving Break		
11-22-18	No Class – Thanksgiving Break		
11-27-18	Chapter 9: Quadratic Equations, Inequalities, and Functions	IXL Algebra I: **BB. 9** – Solve a Quadratic Equation by Completing the Square **BB. 10** – Solve a Quadratic Equation by using the Quadratic Formula	12-3-18 by 10 pm
11-29-18	Chapter 10: Inverse, Exponential, and Logarithmic Functions (Only 10.1, 10.3, 10.4, 10.5)	TB p. 692 #1, 8-19 all, 22 IXL Algebra II: **R.1** – Convert Between Exponential and Logarithmic Form: Rational Bases **R.4** – Evaluate Logarithms	12-6-18 at the beginning of class (Exam IV) 12-3-18 by 10 pm
12-4-18	Chapter 10: Inverse, Exponential, and Logarithmic functions		
12-6-18	**Exam IV (Chapter 8 – Chapter 10)**		All Textbook homework is due TODAY, at the BEGINNING of class. NO LATE HOMEWORK will be accepted
12-11-18	Review for Final Exam	TB p. 694 #1-27 all, 30-33 all	12-13-18 at the beginning of class (Final Exam)
12-13-18	Final Exam		All Textbook homework is due TODAY, at the BEGINNING of class. NO LATE HOMEWORK will be accepted Congrats! You have finished the semester!