## Directed Self-Placement For Mathematics

To Incoming Students of Union College,
I would like to welcome you to Union College of Union County, NJ and the educational journey that you are about to begin. Please know that all the Faculty and Staff at Union College are committed to supporting your studies as you work towards your degree.

The first step of any journey is the most important one and thus we want to get all of you "off on the right foot." The courses you select for your first semester will be both challenging and rewarding and are the foundation for the rest of your studies.

To help you select the math course that is the best for your degree program, we have developed a Directed Self-Placement (DSP) process. DSP will help you determine which initial Union College math course is best for you based upon your math experience and future goals.

The DSP process consists of three simple steps:

1. Review Math Course Expectations and Course Descriptions;
2. Complete the Math Directed Self-Placement Questionnaire;
3. Select your preferred Math course(s).

The questionnaire will ask you about your previous math classes and your goals. All three of the above steps should take about 15 minutes to complete.

I would also like to take this opportunity to tell you that the College offers free tutoring services in the Academic Learning Centers that are located on all campuses.

Should you have any questions, please feel free to reach out to the STEM Division at (908) 709-7467 or STEMDivision@ucc.edu.

Again, welcome to Union College and sincere wishes for your academic success!

## Union College Academic Affairs College Placement for Mathematics

| Multiple Measures Exemption | Score | Explanation |
| :---: | :---: | :---: |
| High School GPA | 3.0 or higher | Student took three years of mathematics |
| SAT Mathematics score | 530 or higher on previous SAT; 500 or higher on current SAT (March 2016 or later) |  |
| ACT Score | 20 or higher |  |
| A.A./A.S. or B.A/B.S. degree |  |  |
| Transfer credit for one semester of college-level mathematics |  |  |
| Satisfactory completion of developmental courses in mathematics at another institution |  | Advisor will review transcript for equivalency |
| Visiting student |  |  |
| Qualifying Accuplacer scores |  | Previous or current (NextGen) test scores accepted |
| Other Test Score Exemptions | Score | Explanation |
| Advanced Placement scores | 4 or 5 on $A B$ Calculus placement into MAT 171 4 or 5 on BC placement into MAT 172 |  |
| PARCC Mathematics 11 | 4 or higher (raw score of 750) |  |
| IB test scores | 4 or higher on Mathematics SL for MAT 119; 4 or higher on Math (further) for MAT 125; 5 or higher on Mathematics HL for MAT 155; 6 or 7 on Mathematics HL for placement into MAT 171 |  |
| Other Exemptions | Score |  |
| Direct Self Placement Survey Non-STEM / Non-Business STEM / Business | Student agrees/strongly agrees with \# 1-4 (developmental math recommended) <br> Student agrees/strongly agrees with \#1-5 and 7+8 and took and passed three years of math in high school (MAT 125 or 127 recommended) Student agrees/strongly agrees with \# 1-6 and took and passed three (3) years of math in high school (MAT 119 recommended) <br> Student agrees/strongly agree with \#1-10 and took and passed 4 years of mathematics in high school (MAT 143 recommended) <br> Student agrees/strongly agrees with \#1-11 and has passed 4 years of math and has taken pre-calculus and passed with a B or better (MAT 155 recommended) <br> Student strongly agrees with \#1-12 and has taken calculus in high school and received a grade of $C$ or better (MAT 171 recommended) |  |

## Mathematics Course Expectations: Which is the best fit for you?

The sequence of these courses is appropriate for liberal arts majors (NON-STEM AND NON-BUSINESS)


## Mathematics Course Expectations: Which is the best fit for you?

The sequence of these courses is appropriate for STEM and Business (AA) majors


## BUNION <br> COLLEGE <br> of Union County, NJ

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# Mathematics Course Descriptions: What will you learn in a specific course? 

| MAT 017* | MAT $019 *$ | MAT 125 | MAT 127 | MAT 119 | MAT 143 | MAT 155 | MAT 171 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Introduction to Elementary Algebra | Introduction to Elementary Algebra for Advanced Math Students | Survey of Special Topics for Mathematics | Elementary Statistics | Algebra | Elementary Mathematical Analysis I | Elementary Mathematical Analysis | Unified Calculus I |
| 5 credits | 5 credits | 4 credits | 4 credits | 4 credits | 4 credits | 5 credits | 4 credits |
| This course is designed for non-STEM majors and covers introductory algebra and mathematical concepts to prepare students for MAT 125 or MAT 127. | This course is designed for STEM majors and covers introductory algebra and mathematical concepts to prepare students for MAT 119 and beyond. | This course is designed to give students an appreciation of the beauty and utility of mathematics, and to provide a better idea of what mathematics is and where it can be applied. <br> ALC hours are required for this course. | This course is an elementary course in descriptive statistics and statistical inference. <br> ALC hours are required for this course. | This course is for students who have mastered basic algebra, to teach the students more complex algebra topics, and to prepare the students to take next level mathematics courses. <br> ALC hours are required for this course. | This course introduces the concepts and techniques needed to proceed to more advanced mathematics and science courses, such as calculus. | This course is an accelerated one semester Pre-Calculus course designed for students with sufficient mathematics background but in need of a review of material prior to taking Calculus. | This course is a college level study in Calculus. |

STEP 2: Take the Directed Self-Placement Questionnaire
\&
STEP 3: Select your preferred course placement.
Math Directed Self-Placement Questionnaire
By clicking the link below, you will be redirected to the Self-Placement Survey for Math. This Survey must be completed by the student.
www.ucc.edu/dspmath
The Directed Self-Placement may only be taken once per subject (math and English).

[^1]
## Directed Self Placement for Mathematics: Basic Algebra, College Algebra, Liberal Arts Math, and Statistics

|  | Strongly <br> Agree | Agree | Dis- <br> agree | Strongly <br> Disagree |
| :--- | :--- | :--- | :--- | :--- |
| 1) I enjoy mathematics. |  |  |  |  |
| 2) I can easily add, subtract, and multiply <br> in my head. |  |  |  |  |
| 3) When I am shopping, I can easily <br> figure <br> out a 10\% or 20\% discount on items <br> that <br> are on sale. |  |  |  |  |
| 4) I know how to solve a linear equation. |  |  |  |  |
| 5) I know how to graph linear equations. |  |  |  |  |
| 6) I know how to solve equations using <br> two variables. |  |  |  |  |
| 7) I can solve for mean, median, and <br> mode |  |  |  |  |
| 8) I like games of chance and understand <br> probabilities. |  |  |  |  |

If student only agrees/strongly agrees with \#1-4 (developmental math recommended) If student agrees/strongly agrees with \#1-6 and took and passed three (3) years of mathematics in high school. (MAT1 19 recommended)
If student agree/strongly agrees with \#1-5, 7-8 and took and passed three years of mathematics in high school (MAT 125 or MAT 127 recommended)

## Directed Self-Placement Questionnaire

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The Directed Self-Placement may only be taken once per subject (math and English).

## Directed Self Placement for Mathematics: Pre-Calculus and Calculus

|  | Strongly <br> Agree | Agree | Disagree | Strongly <br> Disagree |
| :--- | :--- | :--- | :--- | :--- |
| 1) I enjoy mathematics. |  |  |  |  |
| 2) I can easily add, subtract, and multiply <br> in my head. |  |  |  |  |
| 3)When I am shopping, I can easily figure out <br> a 10\% or 20\% discount on items that are on <br> sale. |  |  |  |  |
| 4) I know how to solve a linear equation. |  |  |  |  |
| 5) I know how to graph linear equations. |  |  |  |  |
| 6) I know how to solve equations using <br> two variables. |  |  |  |  |
| 7) I can draw a parabola. |  |  |  |  |
| 8) I can solve equations with exponents and <br> square roots. |  |  |  |  |
| 9) I know how to work with functions, relations, <br> domains, and ranges. |  |  |  |  |
| 10) I don't need to use a graphing calculator. |  |  |  |  |
| 11) I feel I have a strong algebraic background |  |  |  |  |
| 12) I took calculus in high school |  |  |  |  |

If student agrees/strongly agrees with \#1-10 and took and passed four (4) years of mathematics in high school (MAT143 - Elementary Mathematical Analysis (Pre-Calculus recommended)
If student agrees/strongly agrees with \#1-11 and has passed 4 years of math and has taken pre-calculus and passed with a B or better (MAT 155 - Accelerated Elementary Mathematical Analysis recommended)

If student strongly agrees with \#1-12 and has taken calculus in high school and received a grade of C or better (MAT 171 - Unified Calculus recommended)

## Directed Self-Placement Questionnaire

By clicking the link below, you will be redirected to the Self-Placement Survey for Mathematics. This Survey must be completed by the student.

The Directed Self-Placement may only be taken once per subject (math and English).


[^0]:    * Courses beginning with a 0 are part of the developmental course sequence and do not count towards degree requirements.

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