

# SWIC Success Center Math and English Boot Camps

## MATH BOOT CAMPS for Math 107, 111 or 112 Students

Announcing the Success Center's new **Math Boot Camps** designed to prepare students for Math 107, 111 & 112! Boot Camps tailored for students who want a refresher or a jump start in their college-level math course.

Students are encouraged to attempt the sample questions on the reverse side to gauge their understanding of topics they are expected to know prior to entering their college-level math courses.

The FREE MATH Boot Camps are offered:

Days	Dates	Times	Success Center Locations
Tues., Wed., and Thurs.	August 11, 12 & 13	10 a.m. to Noon	Belleville, Granite City and Red Bud Campuses
Tues., Wed., and Thurs.	August 11, 12 & 13	4-6 p.m.	Belleville Campus

Students can attend any or all of the sessions. The Math faculty suggest students attend at least 2 sessions if they are enrolled in Math 107 or 111 and 3 sessions if they are enrolled in Math 112. Registration info below.

## ENGLISH BOOT CAMPS for English 101, 96 or 92 Students

New for Fall 2020 – **English Boot Camps** to help students get a jump start on their college reading and writing foundation!

Sessions will focus on writing college essays and research papers, revision techniques, interpreting assignments, annotating sources, and using technology.

The FREE ENGLISH Boot Camps are offered:

Days	Dates	Times	Success Center Locations
Tues. and Thurs.	August 11 & 13	1-3 p.m.	Belleville, Granite City and Red Bud Campuses

English faculty suggest students attend at least one session. Students should attend both if they would like extra assistance with college writing skills, navigating technology such as Microsoft Teams, One Drive and Office 365, utilizing the online tutoring platform – SCOTY, or using other SWIC technology such as Blackboard.

## Register to Attend the FREE Math and English Boot Camps

Register for the **Boot Camps** by email: [SuccessCenters@swic.edu](mailto:SuccessCenters@swic.edu) or call 618-222-5495.

Please include the following information:

- Name
- Student ID
- Registering for math, English or both boot camps
- Math and/or English Course in which the student is enrolled
- Dates, times and campus location where the student plans to attend



Questions? Call or email us! We look forward to helping students get a jump start on their college success.

### Math Boot Camp Sampler

Depending on which course you are enrolled in, we may not cover all the topics listed.

	Topic	Problem
1	Order of Operations	a. Simplify $\frac{8 \div 4(2)}{2^2 - 4[3 + 2(5 - 7)]}$  b. $\left(\frac{1}{3} + \frac{1}{6}\right)^2 + \left(\frac{3}{2} \cdot \frac{4}{9}\right)^2$
2	Evaluating Expressions	Evaluate $-2^2 + \frac{2}{3}a^2 + (-4)^2 - (-2^2) - 4b$ when $a = -3$ and $b = -15$
3	Solving Formulas	Solve $P = 2L + 2W$ for $W$
4	Solving Linear Equations	Solve $2(4b - 3) = \frac{2}{3}(6b + 15)$ for $b$
5	Graphing Compound Inequalities	Graph $x < 2$ and $x \geq -3$ .
6	Percents	56 is 35% of what number?
7	Graphing Lines	Graph the equation $3x + y = 5$
8	Slope	Find the slope of the line, $7x - 5y = 16$ .
9	Writing Linear Equations	Write an equation of the line passing through $(-3, 9)$ and $(-2, 5)$ . Write in the form $Ax + By = C$ .
10	Functions	a. Is a graph, with the following coordinates, a function: $(4, 5), (5, 4), (8, 5), (3, 2), (-3, -2)$  b. Evaluate the function, $f(x) = -3x^2 - 2x + 5$ , at $-2$ .
11	Domain/Range (Interval Notation)	What is the domain & range of $y = \sqrt{x - 2}$ ?
12	Factoring Polynomials	Factor $5x^2 + 13x - 6$ .
13	Solving Quadratic Equations	Solve $x^2 - 4x + 1 = 0$
14	Simplifying Expressions	a. Simplify $(x - 2)^2 - (3x^2 - 5)$  b. Simplify $\frac{-3x^{-7}}{x^2}$

**Log onto [swic.edu/success-center](http://swic.edu/success-center) to check your answers!**