WELCOME TO THE COLLEGE OF ENGINEERING!

The advising staff looks forward to working with you throughout your college career here at the University of Arizona. In order to better understand the math, writing and second language placement requirements we have put together this brochure with major specific information.

Please note that questions related to placement for math, writing and second language will be addressed in our college meeting.

MATH PLACEMENT OVERVIEW

matherization.arizona.edu/placement/freshman

COLLEGE OF ENGINEERING MATH REQUIREMENTS

Math courses at or below the Calculus level require specific Math Placement Test scores for enrollment. See table on the following page. All majors in the College of Engineering require the following courses: MATH 112, MATH 122A/B or 125, Calculus II, MATH 223, Vector Calculus, MATH 233

ADDITIONAL MATH AND SCIENCE REQUIREMENTS

CHEM 151 and PHYS 141 are required by all Engineering majors. PHYS 141 requires concurrent enrollment or completion of Calculus I. Differential Equations, MATH 254 is required by all majors except Engineering Management and Industrial Engineering. Electrical and Computer Engineering also requires MATH 243, which has a Calculus I pre-requisite. Optical Sciences requires MATH 322

NOT ACCEPTED THE FIRST TIME TO THE COLLEGE OF ENGINEERING?

Freshmen admitted to the UA (but not admitted to second choice major) may reapply to the College of Engineering after completion of Calculus I with a grade of C or better and 10 or more credits of coursework within the UA Engineering curriculum (see table below), with a GPA that meets the requirements for the requested major. Admission information can be found at engineeering.arizona.edu/change-your-major

MATH PLACEMENT REQUIREMENTS & OPTIONS

See the chart below for your course and placement options, according to your Preparation for College Algebra (CALC/PCC) or Preparation for Calculus (PCAL/PPLC) placement percentage.

Please note that students can retest, but should review before doing so. Find retesting, links to test review, ALEKS Learning Mode, and other information online at math.arizona.edu/placement

MATH TEST

All incoming freshmen students are required to take the UA Math Placement Test. Engineering students must take the Prep for Calculus (PCAL) Placement Test. Students must have a score of 30 or higher in order to take Calculus I. If you did not take the UA ALEKS Online Math Placement Test, please do so as soon as possible through your Next Steps Center. If you do not have an appropriate Math Placement Test percentage, you will not be able to register for math or science courses. Please consult your orientation schedule for math advising times and locations. If you did test, your test percentage is available in the back of your student calendar on your student advising and information form.

RETESTING

Students who wish to retake the placement test will need to take a proctored test by appointment through the UA Testing Office through an online proctored service called ProctorU. There is a retesting fee; see the math website for more information. Retesting for Fall 2021 registration should be done prior to the start of the semester. For more information see math.arizona.edu/placement/freshman

TRANSFER CREDIT

Students with college level math credits like AP, CLEP, or CC dual enrollment credit should see a math advisor. Out-of-state courses must be approved by the UA Math Department for transfer credit.

Please note that questions related to your Preparation for College Algebra (CALG/PCLG) or Preparation for Calculus II (CALC/PCC) placement percentage.

MATH TEST SCORES EXPIRE AFTER 5 YEARS

Please note that students can retest, but should review before doing so. Find retesting, links to test review, ALEKS Learning Mode, and other information online at math.arizona.edu/placement

AP MATH CREDIT FOR ENGINEERING:

It is the student’s responsibility to adjust their schedule after AP Math scores are processed into the UA system. Students with AP credit for Calculus I, MATH 125, or MATH 129, or AP credit for Calculus II, MATH 129, are recommended to take the UA ALEKS Online Math Placement Test. This is generally recommended for students who receive a score of 5 on the AP AB exam, but also should be considered by any student with Calculus I credit. Calculus II is difficult course and is quite a bit more challenging than Calculus I, particularly if a student took Calculus I over a one year period. UA Math courses are one semester courses and move at a much faster pace. Students need to make sure they are prepared. Review of UA Calculus I is recommended for any student enrolling in Calculus II, MATH 129.

See math.arizona.edu/~calc for more information

AP EXAM

See the chart below for your course and placement options, according to your Preparation for College Algebra (CALC/PCC) or Preparation for Calculus (PCAL/PPLC) placement percentage.

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AND KEEP IN MIND...

The College of Engineering does not accept major changes during orientation sessions. Please submit an online request for an admission review to: forms.ece.arizona.edu/change-major

PLEASE NOTE: Pre-Health, Pre-Pharmacy and Pre-Law are NOT majors.

Find out more at prehealth.arizona.edu, pharmacy.arizona.edu and prelaw.arizona.edu
SECOND LANGUAGE PLACEMENT

Although a second language is not required for a degree in Engineering, it is highly recommended that you demonstrate proficiency at either the second or fourth semester college level in a second language. You do this by (1) completing a second semester or higher language course at the college level (e.g., at the UA or a community college); (2) passing a proctored language proficiency examination at the second semester level or higher; (3) earning a 3 or higher on the Advanced Placement Exam; (4) earning a 4 or higher on the International Baccalaureate Higher Level Exam; or (5) earning an appropriate score on the College Level Examination Program Language Test. Computer Adaptive Proficiency Exams are available for students who have studied or know French, German, Latin, Russian, or Spanish. For information concerning these exams or other languages at the University of Arizona, please visit humanities.arizona.edu.

WRITING PLACEMENT

DEPARTMENT OF ENGLISH WRITING PROGRAM | writingplacement@email.arizona.edu
p 520.621.3553 f 520.621.5410 english.arizona.edu/writing-program/first-year-placement

How to Complete the First-Year Writing General Education and Foundation Requirement

UA students must complete the first-year writing sequence (Foundation Composition). Depending on your placement, you should plan to take three to seven composition units.

HOW IS MY PLACEMENT DETERMINED?

Your placement is determined by the sum of your SAT/ACT + GPA, which means most students are placed before they arrive at UA. We cannot determine your placement if we don’t have both scores, and thus, you may be required to take a writing placement exam. Based on your sum or exam, you are placed into English 101A, English 101, or English 109H (Honors).

WHAT DOES MY PLACEMENT MEAN?

Your placement score determines which writing courses you’ll take to satisfy this requirement. English 101 & 102 together satisfy the requirement; if you believe your placement is incorrect, please contact the writing program regarding eligibility for a placement review.

WHAT IF I HAVE AP, IB, DUAL ENROLLMENT, OR TRANSFER CREDITS THAT SATISFY THIS REQUIREMENT?

If you earned a 4 or higher on the AP Exam or a 5 or higher on the IB Exam then you are placed into English 109H. You must earn a “C” grade or higher to fulfill the writing requirement.

If you have transfer credits from another college/university or dual enrollment credit then you will either satisfy the requirement (or you are required to take UA writing courses). Evaluation of your credit determines whether or not you have to take 101 and/or 102. If your credit satisfies the writing requirement, if you have received elective credit or no credit for transfer courses and would like to appeal, please contact a transfer and placement coordinator at writingplacement@email.arizona.edu.

To request this information in an alternate format (Braille, digital, tape, or large print) please contact Carly Giesed at 520.621.6655.

INTRODUCTION TO MATH, SECOND LANGUAGE, AND WRITING PLACEMENT AT UA

All students greatly benefit from review, either through a course or on their own. We want students to do well in our courses. College courses are different from high school courses for many reasons, and placement is an important part of helping you start out with the right foundation. Please note that placement into a particular course does not guarantee a passing grade.