

GENERAL PREREQUISITE COURSE DESCRIPTIONS

The course descriptions below are intended to help applicants identify college-level courses that meet the prerequisite requirements for SUI's **Diagnostic Medical Sonography** and **Cardiac Sonography** programs. All prerequisite courses must be completed with a grade of "B-" or better to be considered for admission. Each required course and its description can also be found on the corresponding program page in the official SUI Catalog.

Be sure to also explore an additional resource for self-assessing your completed coursework: SUI's [Prerequisite & Transfer Credit Database](#) can help you determine how your previous courses may align with SUI's prerequisites.

HUMAN ANATOMY & PHYSIOLOGY: 6 SEMESTER CREDITS MINIMUM

To meet this prerequisite requirement, the courses must provide students with a comprehensive understanding of the human body, covering all major body systems. Anatomy and Physiology may be taken as a combined course or as two separate courses. In either case, both components must be completed to satisfy the minimum requirement of six semester credits.

A lab component is not required, unless it is a mandatory part of the course as offered by the institution.

PHYSICS: 3 SEMESTER CREDITS MINIMUM

To meet this prerequisite requirement, the course must be designed for biological science or health science students. Topics should include kinematics, Newton's Laws, rigid body dynamics, momentum, and work and energy. Some colleges may divide this material across multiple sessions (e.g., two semesters); in such cases, all sessions must be completed to fulfill the requirement.

A lab component is not required, unless it is a mandatory part of the course as offered by the institution.

MATHEMATICS: 3 SEMESTER CREDITS MINIMUM

To meet this prerequisite requirement, the course must include the following mathematical components: the real number system, solving and graphing linear equations and inequalities, polynomials, exponents and radicals, quadratic equations, second-degree equations and inequalities, functions, conic sections, systems of equations, and exponential and logarithmic functions.

Examples of courses that typically fulfill this requirement include Intermediate Algebra, College Algebra, Precalculus, Statistics, or an equivalent college-level mathematics course.

ENGLISH: 3 SEMESTER CREDITS MINIMUM

To meet this prerequisite requirement, the course must focus on either written or oral communication. An oral communication course should cover the principles of effective communication, including research and delivery techniques, as well as the critical evaluation of public speaking. A written communication course must include training in critical reading, expository and argumentative writing, and library research.

Examples of courses that may fulfill this requirement include Public Speaking, College Composition, English Literature, Analytical and Critical Thinking in Writing, English as a Second Language (ESL), or an equivalent course.

SUI accepts courses from the online education platform, Straighterline. To learn more, visit www.straighterline.com or review Straighterline's [Course Equivalency Guide for SUI](#).