Seattle Pacific University welcomes students transferring into our engineering programs. SPU students enjoy close relationships with their professors, small class sizes, and a holistic education in a Christian environment. Please feel free to contact us with any questions you have:

Melani Plett   Technology Division Lead
Chair of Biomedical Engineering
Chair of Electrical Engineering
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Chair of Mechanical Engineering
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BEFORE TRANSFERRING

Most students transfer into an engineering program after completing two years at another institution, though that is not required for admission to our programs. SPU welcomes incoming students who have completed either a DTA associate's degree or who have worked toward an AS-T or AS-T2 degree. Note that most of SPU's general education requirements are fulfilled by the DTA associate's degree from Washington state 2-year colleges or through the comparable degrees SPU recognizes from Oregon and California community colleges. This is not the case for the AS-T or AS-T2. See "*Transferring with an Associate's Degree*" on the SPU Admissions web site for details. Completing as many of the following mathematics and science courses toward your major as possible as part of your pre-transfer curriculum will speed up your time to degree completion. **See the next page for required courses needed to finish in two years at SPU.**

For any engineering program:
- Mathematics: Calculus (2 quarters); Differential Equations
- Physics: full-year sequence of Engineering (calculus-based) Physics
- Circuits 1 (with lab)

For Biomedical Engineering:
- Statics, Mechanics of Materials, Dynamics

For Electrical Engineering:
- Mathematics: Entire year of Calculus plus Vector or Multi-variable Calculus; and Linear Algebra
- Two quarters of programming in the same language (including data structures)

For General and Mechanical Engineering:
- Mathematics: Entire year of Calculus plus Vector or Multi-variable Calculus; and Linear Algebra
- Statics, Mechanics of Materials, Dynamics

ADMISSION TO SPU AND YOUR MAJOR

We recommend beginning at SPU in the fall, especially if you hope to complete your major in two years.

Acceptance to SPU as a transfer student is based on your performance in high school and college. A college GPA above 3.0 is more likely to gain admission to the university. See the SPU Transfer Admissions web page for more information.

You may enter your major during your first quarter at Seattle Pacific University. To advance in the program, meet with your faculty advisor regularly to discuss your course progression and other indicators of satisfactory academic progress.

Thank you for your interest in Engineering at Seattle Pacific University. Additional information on our programs may be found on the Engineering and Computer Science web pages (www.spu.edu/engineering) and in SPU's Catalog (http://spu.edu/catalog/undergraduate).

There is a pathway to complete the chosen Engineering major in 2 years for students who come to SPU with the following courses completed AND also either a) having met most (all but two or three) of the SPU general education requirements or b) having completed a DTA Associates degree. While this requires good planning both before and after coming to SPU, it is achievable.

In order to be on target for this 2-Year Plan, a student should complete the following courses before transfer. Course numbers are SPU course numbers. To find equivalent courses at your institution, go to our Transfer Course Equivalency Guide. Note that the exact list of courses varies by your chosen major. **Two-year plans for completing degrees in engineering can be found under the Suggested Course Sequences tab for each major here.** [Note that the online Suggested Course Sequences are potentially more current than this document.]

Biomedical Engineering
- Calculus I, II – equivalent to MAT 1234 and MAT 1235
- Differential Equations – equivalent to MAT 3237
- Physics for Science/Engineering I, II, III – equivalent to PHY 1121, 1122, 1123
- Programming equivalent to either a) CSC 2230 OR b) both CSC 1250 (any language) and CSC 1260 (C++) (Option b is needed for some tracks within the major.)
- Chemistry (with lab) equivalent to CHM 1310 or CHM 1211
- Statics – equivalent to ME 2891
- Mechanics of Materials – equivalent to ME 3310
- One course in Computer Aided Design
- Biology (with lab) – equivalent to BIO 2202
- Circuits 1 (with lab) - equivalency to EE 2726 preferred (May be taken at SPU.)
- Statistics – equivalent to MAT 2360 (May be taken at SPU.)
- *Dynamics – equivalent to ME 3400 (Needed only for some tracks within the major.)*
- *Calculus III – Equivalent to MAT 1236 (Needed for some tracks within the major.)*
- *Linear Algebra – equivalent to MAT 2401 (Needed only for some tracks within the major.)*

Electrical Engineering
- Calculus I, II, III – equivalent to MAT 1234, 1235, 1236*
- Vector Calculus – equivalent to MAT 3238
- Differential Equations – equivalent to MAT 3237
- Linear Algebra – equivalent to MAT 2401
- Physics for Science/Engineering I, II, III – equivalent to PHY 1121, 1122, 1123
- Circuits 1 (with lab) - equivalency to EE 2726 preferred**   (May be taken at SPU.)
- Two quarters of programming in the same language, including Data Structures (C++ preferred)
- Chemistry –equivalent to CHM 1310 or 1211 (does not need to include a lab)

*At some schools Calculus III and IV cover the content of SPU's MAT 1236. Consult the Transfer Course Equivalency Guide for your school.

(see next page for Mechanical engineering and General Engineering.)

Mechanical or General Engineering
- Calculus I, II, III – equivalent to MAT 1234, 1235, 1236*
- Vector Calculus – equivalent to MAT 3238
- Physics for Science/Engineering I, II, III – equivalent to PHY 1121, 1122, 1123
- Statics – equivalent to ME 2891
- Mechanics of Materials – equivalent to ME 3310
- Dynamics – equivalent to EGR or ME 3400
- Chemistry – equivalent to CHM 1310 (including lab) or CHM 1211 (including a lab)

Preferred but not mandatory:
- Linear Algebra – equivalent to MAT 2401
- Differential Equations – equivalent to MAT 3237
- One 5-credit programming course (preferably in Python or C++)
- One course in Computer Aided Design

*At some schools Calculus III and IV cover the content of SPU's MAT 1236. Consult the Transfer Course Equivalency Guide for your school.

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