

**B.S. in GENERAL ENGINEERING**  
**(Individual Course of Study Concentration)**  
Suggested 2-Year Academic Flowchart for Transfer Students Admitted Fall 2023

Please note: This flowchart is one example of how students can graduate in 2 years. Many times transfer students need longer than this. We encourage students to this use as a tool in creating their own unique quarter by quarter graduation plan.  
Updated 3/24/2023

		YEAR 1			YEAR 2		
		Fall	Winter	Spring	Fall	Winter	Spring
<div>Introduction to Engineering</div> <div>ENGR 110 (2)</div>	<div>Transfer students should not take ENGR 110. Two units of an engineering intro course from a previous institution may substitute.</div>	<div>Intro. To Design &amp; Manufacturing</div> <div>IME 144 (4)</div>	<div>Thermodynamics I</div> <div>ME 302 (3)</div> <div>(ME 212 &amp; PHYS 132)</div>	<div>Fluid Mechanics I</div> <div>ME 341 (3)</div> <div>(MATH 242 or 244; ME 212)</div>	<div>Interdisciplinary Sr Design Project I</div> <div>ENGR 459 (2)<sup>4</sup></div> <div>(Sr. Standing)</div>	<div>Interdisciplinary Sr Design Project II</div> <div>ENGR 460 (2)<sup>4</sup></div> <div>(ENGR 459)</div>	<div>Interdisciplinary Sr Design Project III</div> <div>ENGR 461 (2)<sup>4</sup></div> <div>(ENGR 460)</div>
		<div>Engineering Dynamics</div> <div>ME 212 (3)</div> <div>(MATH 241; ME 211 or ARCE 211)</div>	<div>Mechanics of Materials I</div> <div>CE 204 (3)</div> <div>(ME 211)</div>	<div>Choose one: Engin. Economics IME 314 (3) (MATH 241) OR Financial Decision... IME 315 (3) (MATH 142)</div>	<div>Heat Transfer</div> <div>ME 343 (4)</div> <div>(formerly ME 350)</div> <div>(CPE/CSC 101 or CSC 231 or 234; ME 236 ; ME 302; ME 341)</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>
		<div>Math or Stat Elective</div> <div>MATH 344, STAT 312, or STAT 350</div> <div>(4)*</div> <div>[Upper-Division B]</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(2)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(3)***</div>
		<div>Upper-Division C (4)**</div> <div>(combine with USCP requirement if still needed)</div>	<div>Physical Science Elective<sup>3</sup></div> <div>(4)*</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(3)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>
				<div>Physical Science Elective<sup>3</sup></div> <div>(4)*</div>	<div>Any GE or Support Course Not Completed</div>		<div>Any GE or Support Course Not Completed</div>
		<div>Graduation Writing Requirement GWR*</div> <div>(Must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the Upper Division C) OR by completing the GWR Portfolio by enrolling in UNIV 401. GWR courses are searchable on Schedule Builder).</div>					
				15	14	16	13+

**Notes:**

**MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET**

<sup>1</sup>Students with an approved individualized course of study may substitute CSC 231 (2 units) plus an additional 2 units of other advisor approved coursework for CSC/CPE 101 (4units)

<sup>3</sup>Refer to your current catalog for course selection. Physical Science Electives total 8 units.

<sup>4</sup> ENGR 459, 460, 461 (6 units) or 6 units of Senior Project in appropriate engineering discipline.

\* Refer to your current catalog for prerequisites.

\*\*Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

\*\*\* Concentration form required and should ASAP. Concentration courses should total at least 40 units (a minimum of 33 units need to be 300-400 level).

<sup>^</sup>ENGL 149 has been discontinued. If this is still needed, take any GE A3

**Legend:**

<i>Course Title</i>		
<b>Course # (Units)</b>		<b>Major</b>
<i>(Prerequisite)</i>		
<b>[GE Area]</b>		<b>Support</b>
		<b>Concentration</b>
		<b>General Ed.</b>