

# INDUSTRIAL DESIGN (PRODUCT DESIGN & DEVELOPMENT) BS + DESIGN MA SF STATE SCHOLARS ROADMAP

The San Francisco State Scholars program provides undergraduate students with an accelerated pathway to a graduate degree. Students in this program pursue a bachelor's and master's degree simultaneously. This program allows students to earn graduate credit while in their junior and/or senior year, reducing the number of semesters required for completion of a master's degree.

**This roadmap is a suggested plan of study and does not replace meeting with an advisor. Please note that students may need to adjust the actual sequence of courses based on course availability. Please consult your Degree Planner (<https://registrar.sfsu.edu/degreeplanner/>) and an advisor for further guidance.**

To avoid taking additional units, it is recommended that you meet the SF State Studies (AERM, GP, ESCA, SJ) requirements within your GE or major.

Course	Title	Units
<b>First Year</b>		
<b>Fall Semester</b>		
GE Area 1A: English Composition <sup>1</sup>		3
GE Area 1: English Communication		3
GE Area 2: Mathematical Concepts and Quantitative Reasoning <sup>2</sup>		3
GE Area 3: Arts and Humanities		3
SF State Studies or University Elective		3
<b>Units</b>		<b>15</b>
<b>Spring Semester</b>		
GE Area 1: English Communication		3
GE Area 3: Arts and Humanities		3
GE Area 5: Physical and Biological Sciences <sup>3</sup>		3-4
SF State Studies or University Elective - Take Two		6
<b>Units</b>		<b>15-16</b>
<b>Second Year</b>		
<b>Fall Semester</b>		
GE Area 4: Social and Behavioral Sciences - Take Two <sup>4</sup>		6
SF State Studies or University Elective - Take Three		10
<b>Units</b>		<b>16</b>
<b>Spring Semester</b>		
DES 200	Visual Design Literacy (Major Foundation)	3
DES 222	Digital Design Foundations I (Major Foundation)	3
GE Area 5: Physical and Biological Sciences <sup>3</sup>		3-4
GE Area 6: Ethnic Studies ( <a href="https://bulletin.sfsu.edu/undergraduate-education/general-education/areasix/">https://bulletin.sfsu.edu/undergraduate-education/general-education/areasix/</a> )		3

U.S. and California Government ( <a href="https://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg">https://bulletin.sfsu.edu/undergraduate-education/american-institutions/#usg</a> )		3
<b>Units</b>		<b>15-16</b>
<b>Third Year</b>		
<b>Fall Semester</b>		
DES 305	Lab Safety Basics (Major Requirement)	1
DES 320	Drafting and Sketching for Design (Major Requirement)	3
DES 321	Technical Drawing I: Introduction to CAD (Major Requirement)	3
DES 322	Digital Design Foundations II (Major Core)	3
DES 356	A History of Design and Technology (Major Core) <sup>5</sup>	3
DES 370	Introduction to The School of Design (Major Core)	1
<b>Units</b>		<b>14</b>
<b>Spring Semester</b>		
DES 300	Design Process (Major Core)	3
DES 310	Product Design I (Major Requirement)	3
DES 324GW	Research and Writing for Design - GWAR (Major Core)	3
DES 420	Rapid Visualization (Major Requirement)	3
DES 360	Model Development Laboratory (Major Requirement)	3
<b>Units</b>		<b>15</b>
<b>Fourth Year</b>		
<b>Summer Semester</b>		
GE Area 5UD or 2UD: Upper-Division Sciences or Upper-Division Mathematical Concepts		3
GE Area 4UD: Upper-Division Social and Behavioral Sciences		3
<b>Units</b>		<b>6</b>
<b>Fall Semester</b>		
DES 340	Design and Materials (Major Requirement)	3
DES 410	Product Design II (Major Requirement)	3
DES 421	Technical Drawing II: 3-D Solid Modeling (Major Concentration)	3
DES 460	Rapid Prototyping and Manufacturing Systems (Major Core)	3

Major Electives (6 Units Total) <sup>6</sup>		3
	<b>Units</b>	<b>15</b>
<b>Spring Semester</b>		
DES 505	Senior Design Project (Major Culminating Requirement)	3
DES 570	Professional Practices for Designers (Major Culminating Requirement)	3
DES 700	Seminar in Design Research (Graduate Core)	3
Major Electives (6 Units Total) <sup>6</sup>		3
Graduate Elective (9 units total) <sup>7</sup>		3
	<b>Units</b>	<b>15</b>
<b>Fifth Year</b>		
<b>Fall Semester</b>		
DES 724	Graduate Research and Writing Methods in Design (Graduate Core)	3
DES 800	Seminar in Design Topics (Graduate Core)	3
DES 852	Directed Experience in Design (Graduate Core)	3
Graduate Elective (9 Units Total) <sup>7</sup>		3
	<b>Units</b>	<b>12</b>
<b>Spring Semester</b>		
DES 755	Seminar in Design Management (Graduate Core)	3
DES 805	Seminar in Design Methodology (Graduate Core)	3
Select One (Culminating Experience):		3
DES 894	Creative Work Project	
DES 898	Master's Thesis	
Graduate Elective (9 units total) <sup>7</sup>		3
	<b>Units</b>	<b>12</b>
	<b>Total Units</b>	<b>150-152</b>

howtofindyourpathways/). Questions? Contact Gator Smart Start. (<https://gatorsmartstart.sfsu.edu/>)

<sup>3</sup> Consider taking a class combined with a laboratory or a separate lab to fulfill 5C if not already satisfied.

<sup>4</sup> First-time freshmen must take one lower-division Area 4 course that meets US History (USH).

<sup>5</sup> GE Area 3UD (Arts or Humanities) is satisfied upon completion of DES 356.

<sup>6</sup> **Major Electives (6 units)**  
A full list of courses that can fulfill this requirement can be found in the Degree Requirements (<https://bulletin.sfsu.edu/colleges/liberal-creative-arts/design-industry/bs-industrial-design-concentration-product-design-development/#degreerequirementstext>).

<sup>7</sup> **Graduate Electives (9 units)**  
Select three graduate and/or upper-division courses with the approval of a graduate advisor.

<sup>1</sup> Students should use their Pathway/Category (<https://gatorsmartstart.sfsu.edu/pathways/>) to determine the appropriate GE 1A course option. For directions on how to view your Pathway/Category, visit how to find your pathway (<https://gatorsmartstart.sfsu.edu/howtofindyourpathways/>). Questions? Contact Gator Smart Start. (<https://gatorsmartstart.sfsu.edu/>)

<sup>2</sup> Students should use their Pathway/Category (<https://gatorsmartstart.sfsu.edu/pathways/>) to determine the appropriate GE 2 course option. For directions on how to view your Pathway/Category, visit how to find your pathway (<https://gatorsmartstart.sfsu.edu/>)