

AEROSPACE ENGINEERING

2026-2028 Semester Catalog
THIS IS AN UNOFFICIAL EXAMPLE

TOTAL SEMESTER UNITS REQUIRED : 128

Catalog Notes & Suggestions
 Below is an example of a pathway for a transfer student who is **on the Semester Catalog**.

NOTE ABOUT TRANSFER CREDIT

Below is a list of courses that you may have transfer credit for. Anything not transferred, needs to be added to your graduation plan, which may result in additional terms.

Fall 2026 Transfer Flowchart
 Aeronautics Concentration
 2-Year Semester

POTENTIAL CAL POLY EQUIVALENT TRANSFER CREDIT				YEAR ONE	2026-2027	YEAR TWO	2027-2028
				FALL	SPRING	FALL	SPRING
Aerospace Fundamentals AERO 1121 (2)** <i>**AERO transfer students may fulfill AERO 1121 by completing AERO 3361 (1 unit) and an additional free elective to cover the remaining unit.</i>				Engineering Numerical Analysis AERO 3300 (4) * [GE UD 2 or 5]	Heat and Mass Transfer AERO 3303 (2) AERO 3301; & AERO 3300	Aircraft Design Senior Project I AERO 4461 (3) AERO 3304; AERO 3305; AERO 3320; AERO 3331; AERO 3460; and IME 1140	Aircraft Design Senior Project II AERO 4462 (3) AERO 4401; AERO 4405; & AERO 4461
Aerospace Engineering Dynamics AERO 2220 (3) ENGR 2211	Fundamentals of Chemical Structure and Properties CHEM 1120 (4) [GE 5A & 5C]	Introduction to Mechanics ENGR 2211 (4) MATH 1262 and PHYS 1141	Principles of Materials Engineering Lecture for Non-Majors MATE 1220 (2) CHEM 1120	Thermo Fluid Dynamics AERO 3301 (4) ME 212 or AERO 2220, Co-req: AERO 300 or 3300	Aerospace Propulsion Systems AERO 3304 (3) CHEM 1120, Co-req: AERO 3303	Propulsion Lab AERO 4403 (1) AERO 3304, Co-req: AERO 4401 or AERO 4402	Technical Elective (3) *
Calculus I MATH 1261 (4) * [GE 2]	Calculus II MATH 1262 (4) MATH 1261 with C- or better	Calculus III MATH 2263 (3) MATH 1262 or MATH 1263	Linear Analysis MATH 2341 (4) One of the following: MATH 1262, MATH 1263, or DATA/MATH 1265	Thermo Fluids Lab AERO 3302 (1) Co-req: AERO 3301	System Dynamics AERO 3320 (3) AERO 3300; & AERO 2220	Ground to Space Propulsion AERO 4401 (2) AERO 3304	Technical Elective (3) *
General Physics I PHYS 1141 (4) Co-req: MATH 1261	General Physics II PHYS 1143 (4) PHYS 1141 Co-req: MATH 1262	Written Communication GE 1A (3) *	Critical Thinking GE 1B (3) *	Aerospace Structural Analysis I AERO 3331 (4) ENGR 2211; & MATE 1220, Co-req: AERO 3300	Aerospace Structural Analysis II AERO 4431 (3) AERO 3331	Advanced Aerodynamics AERO 4405 (3) AERO 3305	Technical Elective (3) *
Oral Communication GE 1C (3) *	Arts GE 3A (3) *	Humanities: Literature, Philosophy, and Languages other than English GE 3B (3) *	American Institutions GE 4A (3) Area 4 courses must come from at least two different prefixes *	Intro to AERO for Transfer Students AERO 3361 (1) Junior Standing [**Fulfills AERO 1121]	Experimental Stress Analysis AERO 4433 (1) AERO 3331	Experimental Aerodynamics AERO 4406 (1) AERO 3301; Recommended: AERO 3305	Upper-Division Area 3: Arts & Humanities GE UD 3 (3) * [GE UD C]
Social and Behavioral Science GE 4B (3) Area 4 courses must come from at least two different prefixes *	Life Sciences GE 5B (3) *	Ethnic Studies GE 6 (3) *	Technical Graphics Comm. for Design & Mfg IME 1140 (1) Rec: IME 1143	Aerospace Eng. Professional Prep AERO 3460 (1) Junior Standing	Introduction to Aerodynamics AERO 3305 (3) AERO 3300; & AERO 3301	Aircraft Dynamics & Control AERO 4420 (3) AERO 3305; & AERO 3320	Upper-Division Area 4: Social & Behavioral Sciences GE UD 4 (3) Area 4 courses must come from at least two different prefixes [GE UD D]
				16 SEM.	17 SEM.	16 SEM.	15 SEM.

Anything not transferred, needs to be added to your plan on the right, which may result in additional terms.

UNITS

Please Note: These flowcharts are an example and not a template of your individualized plan. You will need to consult the Catalog and Degree Progress Report for detailed information about what you need to graduate. Engineering Student Services is available for assistance in this process.

*Refer to current catalog for course requirements

Course Color Key

MAJOR	GE
SUPPORT	CONCENTRATION

Additional Requirements

Click the links below to learn more about how to complete these requirements before graduation.

U.S. CULTURAL PLURISM (USCP)

GRADUATION WRITING REQ. (GWR)

AEROSPACE ENGINEERING

2026-2028 Semester Catalog
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TOTAL SEMESTER UNITS REQUIRED : 128

Catalog Notes & Suggestions
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NOTE ABOUT TRANSFER CREDIT

Below is a list of courses that you may have transfer credit for. Anything not transferred, needs to be added to your graduation plan, which may result in additional terms.

Fall 2026 Transfer Flowchart
 Astronautics Concentration
 2-Year Semester

POTENTIAL CAL POLY EQUIVALENT TRANSFER CREDIT				YEAR ONE	2026-2027	YEAR TWO	2027-2028		
				FALL	SPRING	FALL	SPRING		
Aerospace Fundamentals AERO 1121 (2)** <i>**AERO transfer students may fulfill AERO 1121 by completing AERO 3361 (1 unit) and an additional free elective to cover the remaining unit.</i>				Engineering Numerical Analysis AERO 3300 (4) <small>[GE UD 2 or 5]</small>				Spacecraft Design Senior Project I AERO 4463 (3) <small>AERO 3304; AERO 3320; AERO 3331; AERO 3351; AERO 3460; and IME 1140</small>	
Aerospace Engineering Dynamics AERO 2220 (3) <small>ENGR 2211</small>	Fundamentals of Chemical Structure and Properties CHEM 1120 (4) <small>[GE 5A & 5C]</small>	Introduction to Mechanics ENGR 2211 (4) <small>MATH 1262 and PHYS 1141</small>	Principles of Materials Engineering Lecture for Non-Majors MATE 1220 (2) <small>CHEM 1120</small>	Thermo Fluid Dynamics AERO 3301 (4) <small>IME 212 or AERO 2220, Co-req: AERO 300 or 3300</small>				Aerospace Propulsion Systems AERO 3304 (3) <small>CHEM 1120, Co-req: AERO 3303</small>	
<i>Anything not transferred, needs to be added to your plan on the right, which may result in additional terms.</i>				Thermo Fluids Lab AERO 3302 (1) <small>Co-req: AERO 3301</small>				System Dynamics AERO 3320 (3) <small>AERO 3300; & AERO 2220</small>	
Calculus I MATH 1261 (4) <small>[GE 2]</small>	Calculus II MATH 1262 (4) <small>MATH 1261 with C- or better</small>	Calculus III MATH 2263 (3) <small>MATH 1262 or MATH 1263</small>	Linear Analysis MATH 2341 (4) <small>One of the following: MATH 1262, MATH 1263, or DATA/MATH 1265</small>	Aerospace Structural Analysis I AERO 3331 (4) <small>ENGR 2211; & MATE 1220, Co-req: AERO 3300</small>				Spacecraft Attitude Dynamics & Control AERO 4421 (3) <small>AERO 3351; AERO 3320</small>	
General Physics I PHYS 1141 (4) <small>Co-req: MATH 1261</small>	General Physics II PHYS 1143 (4) <small>PHYS 1141 Co-req: MATH 1262</small>	Written Communication GE 1A (3)	Critical Thinking GE 1B (3)	Aerospace Structural Analysis II AERO 4431 (3) <small>AERO 3331</small>				Upper-Division Area 3: Arts & Humanities GE UD 3 (3) <small>[GE UD C]</small>	
Oral Communication GE 1C (3)	Arts GE 3A (3)	Humanities: Literature, Philosophy, and Languages other than English GE 3B (3)	American Institutions GE 4A (3) <small>Area 4 courses must come from at least two different prefixes</small>	Intro to AERO for Transfer Students AERO 3361 (1) <small>Junior Standing **Fulfills AERO 1121</small>				Upper-Division Area 4: Social & Behavioral Sciences GE UD 4 (3) <small>Area 4 courses must come from at least two different prefixes [GE UD D]</small>	
Social and Behavioral Science GE 4B (3) <small>Area 4 courses must come from at least two different prefixes</small>	Life Sciences GE 5B (3)	Ethnic Studies GE 6 (3)		Aerospace Eng. Professional Prep AERO 3460 (1) <small>Junior Standing</small>				Spacecraft Electrical & Electric Systems AERO 4446 (3) <small>AERO 2220; AERO 3351; & PHYS 1143</small>	
				Technical Graphics Comm. for Design & Mfg IME 1140 (1) <small>Rec: IME 1143</small>				Space Environments AERO 4455 (3) <small>AERO 3300; AERO 3303</small>	
				Introduction to Design and Manufacturing IME 1143 (2) <small>Corequisite: IME 1140</small>				Space Environments Lab AERO 4456 (1) <small>Co-req: AERO 4455</small>	
				16 SEM.		17 SEM.		16 SEM.	
								15 SEM.	

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Course Color Key

MAJOR	GE
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Additional Requirements
 Click the links below to learn more about how to complete these requirements before graduation.

[U.S. CULTURAL PLURISM \(USCP\)](#)

[GRADUATION WRITING REQ. \(GWR\)](#)

Transfer Flowchart

Astronautics Concentration
3-Year Semester

TOTAL QUARTER UNITS REQUIRED : 128

Catalog Notes & Suggestions
Below is an example of a pathway for a transfer student who is **moving to the Semester Catalog**.

NOTE ABOUT TRANSFER CREDIT

Below is a list of courses that you may have transfer credit for. Anything not transferred, needs to be added to your graduation plan, which may result in additional terms.

POTENTIAL CAL POLY EQUIVALENT CREDIT				YEAR 1 2026-2027		YEAR 2 2027-2028		YEAR 3 2028-2029	
				FALL	SPRING	FALL	SPRING	FALL	SPRING
Aerospace Fundamentals AERO 1121 (2)** **AERO transfer students may fulfill AERO 1121 by completing AERO 3361 (1 unit) and an additional free elective to cover the remaining unit.				Intro to AERO for Transfer Students AERO 3361 (1) <i>Junior Standing</i> [**Fulfills AERO 1121]	Aerospace Engineering Dynamics AERO 2220 (3) <i>ENGR 2211</i>	Thermo Fluid Dynamics AERO 3301 (4) <i>AERO 2220, Co-req: AERO 3300</i>	Heat and Mass Transfer AERO 3303 (2) <i>AERO 3301; AERO 3300</i>	Spacecraft Design Senior Project I AERO 4463 (3) <i>AERO 3304, 3320, 3331, 3351, 3460, and IME 1140</i>	Spacecraft Design Senior Project II AERO 4464 (3) <i>AERO 4402, AERO 4446, & AERO 4463</i>
Fundamentals of Chemical Structure and Properties CHEM 1120 (4) <i>[GE 5A & 5C]</i>	Principles of Materials Engineering Lecture for Non-Majors MATE 1220 (2) <i>CHEM 1120</i>	Calculus I MATH 1261 (4) <i>[GE 2]</i>	Calculus II MATH 1262 (4) <i>MATH 1261 with C- or better</i>	Aerospace Eng. Professional Prep AERO 3460 (1) <i>Junior Standing</i>	Engineering Numerical Analysis AERO 3300 (4) <i>Junior standing; completion of GE Area 1 with grades of C- or better; completion of GE 2 with grade of C- or better; & MATH 2341 [GE UD 2 or 5]</i>	Thermo Fluids Lab AERO 3302 (1) <i>Co-req: AERO 3301</i>	Aerospace Propulsion Systems AERO 3304 (3) <i>CHEM 1120, Co-req: AERO 3303</i>	Propulsion Lab AERO 4403 (1) <i>AERO 3304, Co-req: AERO 4402</i>	Technical Elective (3) <i>*</i>
Calculus III MATH 2263 (3) <i>MATH 1262 or MATH 1263</i>	Linear Analysis MATH 2341 (4) <i>One of the following: MATH 1262, MATH 1263, or DATA/MATH 1265</i>	Engineering Statics ME 2210 (2) <i>MATH 143 or MATH 1262; and PHYS 141 or PHYS 1141 ME 2210 + ME 2204 = ENGR 2211</i>	General Physics I PHYS 1141 (4) <i>Co-req: MATH 1261</i>	Introduction to Design and Manufacturing IME 1143 (2) <i>Corequisite: IME 1140</i>	Upper-Division Area 4: Social & Behavioral Sciences GE UD 4 (3) <i>Area 4 courses must come from at least two different prefixes *</i>	Aerospace Structural Analysis I AERO 3331 (4) <i>ENGR 2211; and MATE 1220, Co-req: AERO 3300</i>	System Dynamics AERO 3320 (3) <i>AERO 3300; & AERO 2220</i>	Space Flight Propulsion AERO 4402 (2) <i>AERO 3304</i>	Technical Elective (3) <i>*</i>
General Physics II PHYS 1143 (4) <i>PHYS 1141 Co-req: MATH 1262</i>	Written Communication GE 1A (3) <i>*</i>	Critical Thinking GE 1B (3) <i>*</i>	Oral Communication GE 1C (3) <i>*</i>	Technical Graphics Comm. for Design & Mfg IME 1140 (1) <i>Rec: IME 1143</i>	Any remaining support course or GE not transferred	Any remaining support course or GE not transferred	Aerospace Structural Analysis II AERO 4431 (3) <i>AERO 3331</i>	Spacecraft Attitude Dynamics & Control AERO 4421 (3) <i>AERO 3351 & AERO 3320</i>	Any remaining support course or GE not transferred
Arts GE 3A (3) <i>*</i>	Humanities: Literature, Philosophy, and Languages other than English GE 3B (3) <i>*</i>	American Institutions GE 4A (3) <i>Area 4 courses must come from at least two different prefixes *</i>	Social and Behavioral Science GE 4B (3) <i>Area 4 courses must come from at least two different prefixes *</i>	Introduction to Mechanics of Materials ME 2204 (2) <i>Consent of Instructor [Completes ENGR 2211]</i>	Upper-Division Area 3: Arts & Humanities GE UD 3 (3) <i>*</i>	Experimental Stress Analysis AERO 4433 (1) <i>AERO 3331</i>	Experimental Stress Analysis AERO 4433 (1) <i>AERO 3331</i>	Spacecraft Electrical & Electric Systems AERO 4446 (3) <i>AERO 2220, AERO 3351, & PHYS 1143</i>	Spacecraft Attitude Dynamics & Control AERO 4421 (3) <i>AERO 3351 & AERO 3320</i>
Life Sciences GE 5B (3) <i>*</i>	Ethnic Studies GE 6 (3) <i>*</i>			Any remaining support course or GE not transferred	Introduction to Orbital Mechanics AERO 3351 (3) <i>AERO 2200 & AERO 3300</i>	Space Environments AERO 4455 (3) <i>AERO 3300 & AERO 3303</i>	Space Environments AERO 4455 (3) <i>AERO 3300 & AERO 3303</i>	Space Environments Lab AERO 4456 (1) <i>Co-req: AERO 4455</i>	Space Environments AERO 4455 (3) <i>AERO 3300 & AERO 3303</i>
				10+ SEM.	10+ SEM.	9+ SEM.	15 SEM.	16 SEM.	9+ SEM.

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