



Do you need to fulfill a semester requirement?
Check the quarter course equivalent!

Liberal Arts and Engineering Studies

Major and Support Courses

2026 - 2028 Semester Catalog Requirements

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Requirement Fulfilled

	SEMESTER REQUIREMENT	QUARTER COURSE	NOTES
Major Courses	LAES 4301 Liberal Arts and Engineering Studies Capstone I (4)	→ LAES 301 Project-Based Learning in Liberal Arts and Engineering Studies (4)	
	LAES 4302 Liberal Arts and Engineering Studies Capstone II (4)	→ LAES 302 Advanced Project-Based Learning in Liberal Arts and Engineering Studies (4)	
	LAES 4461 Senior Project I in Liberal Arts and Engineering Studies (3)	→ LAES 461 Senior Project in Liberal Arts and Engineering Studies (4)	
	LAES 4462 Senior Project II in Liberal Arts and Engineering Studies (3)	→ LAES 462 Capstone Senior Seminar in Liberal Arts and Engineering Studies (4)	
Engineering Concentration	Choose ONE of the following Engineering Concentrations (26): Computer Science Electrical Engineering Industrial Engineering Individualized Course of Study (See details for each on the following pages)	Choose ONE of the following Engineering Concentrations (39): Computer Science Electrical Engineering Industrial Engineering Individualized Course of Study (See details for each on the following pages)	
	Choose ONE of the following Engineering Concentrations (16): Liberal Arts Focused Course of Study (see options in catalog) Technical and Professional Communication Individualized Course of Study (See details for each on the following pages)	Choose ONE of the following Engineering Concentrations (24): Liberal Arts Focused Course of Study (see options in catalog) Technical and Professional Communication Individualized Course of Study (See details for each on the following pages)	
Liberal Arts Concentration			



Visit the CLA semester conversion website for more information at cla.calpoly.edu/semester-conversion



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	SEMESTER REQUIREMENT	QUARTER COURSE	NOTES
Support Courses	CHEM 1120 Fundamentals of Chemical Structure and Properties (4)	CHEM 124 General Chemistry for Physical Science and Engineering I (4)	5A5C GEs on semesters B1B3 GEs on quarters
	MATH 1261 Calculus I (4)	MATH 141 Calculus I (4)	Area 2 GE on semesters B4 GE on quarters
	MATH 1262 Calculus II (4)	MATH 143 Calculus II (4)	
	MATH 2263 Calculus III (3)	MATH 241 Calculus IV (4)	
	PHYS 1141 General Physics I (4)	PHYS 141 General Physics I (4)	
	PHYS 1143 General Physics II (4)	PHYS 143 General Physics III (4)	
	STAT 3210 Engineering Statistics (3)	STAT 312 Statistical Methods for Engineers (4)	UD 2/5 GE on semesters UD B GE on quarters
Study Abroad or Global Perspectives Courses	Choose FIVE semester units at the 3000-4000 level. Any upper division course abroad or see LAES website for list of approved Global Perspective courses at Cal Poly	Choose EIGHT quarter units at the 300-400 level. Any upper division course abroad or see LAES website for list of approved Global Perspective courses at Cal Poly	
Free Elective	FREE ELECTIVES	FREE ELECTIVES	Speak with a CLA Advisor to determine number of free electives required to meet the minimum 120 semester unit requirement.



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LAES: Computer Science

Concentration Courses

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Requirement Fulfilled

	SEMESTER REQUIREMENT	QUARTER COURSE	NOTES
Required Courses	<p>CSC 1001 Fundamentals of Computer Science (3) & CSC 1001L Fundamentals of Computer Science Laboratory (1)</p>	<p>CSC/CPE 101 Fundamentals of Computer Science (4)</p>	New! Lab offered separately. Taken concurrently with CSC 1001, if taken on semesters.
	<p>CSC 2001 Data Structures (3) & CSC 2001L Data Structures Laboratory (1)</p>	<p>CSC/CPE 202 Data Structures (4)</p>	New! Lab offered separately. Taken concurrently with CSC 2001, if taken on semesters
Electives	<p>Choose EIGHTEEN semester units of LAES Director Approves Electives in CSC, CPE or SE. A minimum of 10 units must be at the 3000-4000 level</p>	<p>Choose TWENTY-SEVEN quarter units of LAES Director Approves Electives in CSC, CPE or SE. A minimum of 15 units must be at the 300-400 level</p>	Suggested electives to pursue studies in areas such as usability studies, game design, full stack web development, or computer graphics are provided on the LAES website.



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LAES: Electrical Engineering

Concentration Courses

2026 - 2028 Semester Catalog Requirements

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Requirement Fulfilled

	QUARTER REQUIREMENT	SEMESTER COURSE	NOTES
Required Courses	EE 2211 Electric Circuit Analysis I (3)	→ EE 211 Electric Circuit Analysis II (3)	Requires concurrent enrollment with EE 221/2241
	EE 2212 Electric Circuit Analysis II (3)	→ EE 212 Electric Circuit Analysis III (3)	
	EE 2241 Electric Circuit Analysis Laboratory I (1)	→ EE 241 Electric Circuit Analysis Laboratory II (1)	Requires concurrent enrollment with EE 211/2211
	MATH 2341 Linear Analysis (4) OR MATH 2343 Differential Equations (3)	→ MATH 244 Linear Analysis (4) OR MATH 242 Differential Equations (3)	
Electives	Choose FIFTEEN to SIXTEEN semester units of LAES Director Approved Electives in CPE or EE. A minimum of 10 units must be at 3000-4000 level.	→ Choose FOUR quarter units of Advisor approved Power Technical Electives in CPE or EE. A minimum of 15 units must be at 300-400 level.	Suggested electives to pursue studies in areas such as animatronics, audio engineering, or power systems are provided on the LAES website.



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LAES: Industrial Engineering

Concentration Courses

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Requirement Fulfilled

Concentration Courses	SEMESTER REQUIREMENT	QUARTER COURSE	NOTES
	CSC 1032 Programming for Scientists and Engineers (3)	→ CSC 232 Computer Programming for Scientists and Engineers (3)	
	IME 1140 Technical Graphics Communication for Design and Manufacturing (1)	→	New Course! To be taken on semesters.
	IME 1143 Introduction to Design and Manufacturing (2)	→ IME 143 Manufacturing Processes: Material Removal (2)	
	IME 1223 Process Improvement Fundamentals (4)	→ IME 223 Process Improvement Fundamentals (4)	
	IME 2212 Introduction to Enterprise Analytics and Database Systems (4)	→ IME 212 Introduction to Enterprise Analytics (4)	
	IME 2315 Financial Decision Making for Engineers (2)	→ IME 315 Financial Decision Making for Engineers (3)	
Electives	Choose TEN semester units of LAES Director approved 3000-4000 electives in IE.	→ Choose FIFTEEN quarter units of LAES Director approved 300-400 electives in IE.	Suggested electives to pursue studies in areas such as project management, process improvement, or production engineering are provided on the LAES website



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**Do you need to fulfill a semester requirement?
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LAES: Engineering Individualized Course of Study

Concentration Courses

2026 - 2028 Semester Catalog Requirements

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Requirement Fulfilled

Courses

26 semester units of
LAES director approved electives from courses offered by the College of Engineering.

A minimum of 10 units must be at the 3000-4000 level.

The student must provide written justification for how this collection of courses constitutes a cohesive and effective hybrid integration with the student's other concentration courses selected from the College of Liberal Arts.

NOTES

Consult with Concentration Advisor to confirm total units.



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**Do you need to fulfill a semester requirement?
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LAES: Technical and Professional Concentration Courses

2026 - 2028 Semester Catalog Requirements

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Requirement Fulfilled

SEMESTER REQUIREMENT	QUARTER COURSE	NOTES
ENGL 2222 Introduction to Technical and Professional Communication (4)	ENGL 221 Introduction to Technical and Professional Communication (4)	
ENGL 4491 Practicum in Technical and Professional Communication (4)		New course! Take on semesters.
Choose ONE of the following (4):		
ENGL 3310 Corporate Communication (3) & LAES 4400 Special Problems for Advanced Undergraduates (1)		
OR		
ENGL 3317 Humanistic Perspectives in Technical and Professional Editing (3) & LAES 4400 Special Problems for Advanced Undergraduates (1)	Choose ONE of the following (4): ENGL 310 Corporate Communication (3) & LAES 400 Special Problems for Advanced Undergraduates (1)	Most semester course options are new courses on semesters and should be taken on semesters if desired.
OR		
ENGL 3632 Writing Grant Proposals and Fundraising Appeals (3) & LAES 4400 and Special Problems for Advanced Undergraduates (1)	OR ENGL 317 Technical Editing (3) & LAES 400 Special Problems for Advanced Undergraduates (1)	Other ENGL, COMS or JOUR courses in the area of technical and professional communication may be substituted.
OR		
ENGL 3636 Copywriting (3) & LAES 4400 Special Problems for Advanced Undergraduates (1)		
OR		
ENGL 3637 Designing Content and Information for the Web (4)		
Choose ONE of the following: ENGL 4428 ENGL 4429 ENGL 4469 ENGL 4473 ENGL 4476 ENGL 4477	Choose ONE of the following: ENGL 421	Most semester course options are new courses on semesters and should be taken on semesters if desired. Other ENGL, COMS or JOUR courses in the area of technical and professional communication may be substituted.





**Do you need to fulfill a semester requirement?
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LAES: Liberal Arts Focused Course of Study

Concentration Courses

2026 - 2028 Semester Catalog Requirements

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Requirement Fulfilled

NOTES

College of Liberal Arts Minor Coursework (16)
Choose from the following:

Art History
Asian Studies
Child Development
English
Ethics, Public Policy, Science and Technology
Ethnic Studies
Gender, Race, Culture, Science and Technology
Gerontology
History
Law and Society
Linguistics
Photography and Video
Psychology
Religious Studies
Science Communication
Social and Environmental Justice
Studio Art
Theatre

Consult with Concentration Advisor to confirm total units.

If minor chosen is 15 semester units, at least one additional unit must be taken in minor area to meet the concentration minimum units.

The student must provide written justification for how this minor constitutes a cohesive and effective hybrid integration with the student's other concentration courses selected from the College of Engineering.

Students must follow all requirements of an approved minor in one of the Liberal Arts academic program. However, if the Liberal Arts minor requires, for completion, more units beyond the minimum 16 units required for the LAES Liberal Arts Minor concentration, LAES students are not required to take those additional units to complete the concentration as part of the LAES degree. A minimum of 10 units at the 3000-4000 level must be taken toward the requirements for the selected minor.

The Credit/No Credit policy for minors will not apply to minors taken to complete this concentration.

Courses



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LAES: Liberal Arts Individualized Course of Study

Concentration Courses

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Requirement Fulfilled

Courses

NOTES

16 semester units of

LAES director approved electives from courses offered by the College of Liberal Arts.

A minimum of 10 units must be at the 3000-4000 level

The student must provide written justification for how this collection of courses constitutes a cohesive and effective hybrid integration with the student's other concentration courses selected from the College of Engineering.

Consult with Concentration Advisor to confirm total units.



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