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Open University
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About the Program

The College of Engineering offers a Master of Science degree in Engineering with emphasis in Aerospace Engineering (MSE_AE) degree program at the Lancaster University Center. The program started in the Fall quarter 2007 and has received WASC approval.

Courses are taught in person, some by Cal Poly Pomona Engineering faculty and some by adjunct faculty, engineers/scientist from the local aerospace community in Antelope Valley.

Admission Requirements

- BS in aerospace or mechanical engineering from a program accredited by ABET*
- Minimum of 3.0 GPA in all undergraduate upper division course work in engineering, mathematics and science

Applicants who do not meet the above requirements may be considered for admission on a case by case basis. In such cases, the applicant is required to have received a GRE test score (quantitative + verbal) of at least 301.

*The degree must have been granted within five years prior to the proposed beginning of the graduate program. GRE is required if the degree granted is not within the five year period.

Curriculum

Required Core Courses:
- EGR 511 – Numerical Modeling (4)
- EGR 512 – Vector Analysis & Complex Variables (4)
- EGR 536 – Composite Materials (4)
- ARO 506 – Aerospace Materials (4)
- ARO 509 – Astronautics (4)
- ARO 510 – Airbreathing Propulsion Systems (4)
- ARO 577 – Aerodynamics of Wings & Bodies (4)
- ARO 578 – Aircraft Stability (4)

Complete four Technical Electives from the following:
- ARO 508 – Finite Element Analysis of Structures (4)
- ARO 514 – Missile Engineering (4)
- ARO 518 – Computational Fluid Dynamics (4)
- ARO 521 – Structural Dynamics (4)
- ARO 528 – Hypersonic Aerodynamics (4)
- ARO 614 – Aircraft & Spacecraft Design (4)
- EGR 599 OC* – Optimal Control & Estimation (4)
- EGR 599 RC* – Robust Control of Nonlinear Systems (4)
- EGR 599 SE* – Systems Engineering for Aerospace Engineers (4)
- EGR 599 DF* – Digital Flight Control Systems (4)
- EGR 599 SI* – Aircraft System Identification (4)

* New Course

Terminal Requirement: (2 units minimum:
Start with EGR 692, continue with EGR 691)
- EGR 692 – Master’s Degree Project (2)
- EGR 691 – Directed Study (2)

If you have not had the following in your BS degree program, you can take up to 8 units of these senior undergraduate courses and use them as technical electives towards the required 45 units:
- ARO 405 – Aircraft Stability and Control (4)
- ARO 414 – Rocket Propulsion (4)
- ARO 436 – Mechanics of Composite Materials (4)

Candidates for the MSE_AE degree must also satisfy the following requirements:
- Develop, file and complete a Program of Study
- Pass the Graduation Writing Test
- Complete a minimum of 45 units of coursework with a grade point average of 3.00 or better
- Complete a Master’s Degree Project

How to Apply

Applications are accepted online through the CSU Mentor website:
www.csumentor.edu
A student may enter the program in any quarter.