

Industrial Design and Product Development Certificate Program

Enrollment in the Industrial Design and Product Development Certificate program offers and proactively creates career opportunities for individuals interested in increasing their potential and value in the market place.

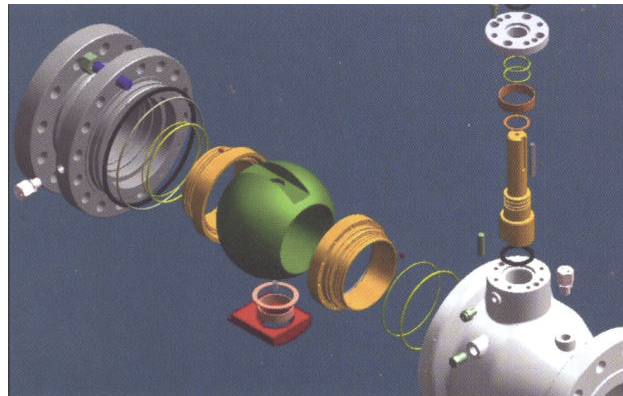
This Certificate program prepares you for opportunities in, but not limited to, the areas of product design and development, product prototyping, and design conceptualization. The program emphasis on critical thinking, creative process management, aesthetic sensibilities, communication skills, awareness of technological as well as humanistic dimensions of product development, and application of modern graphic and design tools.

This certificate program requires successful completion of five courses. Registration for the certificate program courses can be done through SJSU Open University or as a regularly admitted student to SJSU.



Certificate Program Course Requirements

DsID	21	Visualization I
DsID	31	Industrial Design Foundation I
ME	40	Product Design I
ME	140	Product Design II
ME	141	Product Design III



To apply for the Certificate program, you need to contact the Professional Development and Certificates Program Director to plan your course schedule and discuss course registration and fees. Complete the “Certificate Program Application” and mail along with the required application fee to the Mechanical & Aerospace Engineering Department (<http://www.engr.sjsu.edu/mae/certificate.htm>). Individuals who are not a student on campus and are interested in taking the Certificate Program courses need to enroll in these courses through SJSU Open University Enrollment (<http://slisweb.sjsu.edu/admissions/open.htm>). To receive a Certificate signifying your program completion, you must apply for the Certificate after completing your third course in the program. This requires filing for Advancement to Candidacy and submission of an Advancement fee.

Lifelong Learning tax credit is available to students at all educational and enrollment levels who are enrolled at an eligible educational institution. Current tax law permits deduction for tuition, books, supplies and similar items, as well as certain travel and transportation costs incurred to maintain and improve professional skills.

For further information and registration, you may contact:

Professional Development and Certificates Program
Mechanical & Aerospace Engineering Department
San Jose State University
One Washington Square
San Jose CA 95192-0087
Telephone: (408) 924-3850
Fax: (408) 924-3995
Email: mecheng@email.sjsu.edu

Course Descriptions

DsID 21 – Visualization I – Presenting design concepts in both preliminary and finished states. Appraisal and application of media used in industry. Includes elements of color theory.

DsID 31 – Industrial Design Foundation I – Practical exploration of the basics of industrial design aesthetics. Introduction to the design process with special emphasis on 3D form development and presentation.

ME 40 – Introduction to product design process - Introduction to three-dimensional solid modeling. Computer-aided design, manufacturing, and analysis using commercially available software. Familiarize students with the design process and design for manufacturing.

ME 140- Product Design II – Product design with emphasis on process and material selection. Laboratory exercises in process design and development. Planning for manufacturing.

ME 141 – Product Design III – Explorations of interrelationships of design to function and aesthetics. Focus on solid model representations, design-build decision-making. Design for manufacturability, and assembly based on aesthetics and product functionality.