MiraCosta College's Design Program offers classes in design fundamentals, architectural drawing, computer-aided drafting, 3D modeling, rapid prototyping, graphic communication, engineering design graphics, construction materials, manufacturing processes, AutoCAD, Revit, SolidWorks and more.

For more information, go to miracosta.edu/design



#### MIRACOSTA COLLEGE

Design Program miracosta.edu/design facebook.com/mccdesign

Design Faculty

#### Paul Clarke

- ▶ 760.757.2121, x6405
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#### **David Parker**

- 760.757.2121, x6557
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"MiraCosta College's Design Drafting Program taught me detailed skills that prepared me for my current job and gave me the fundamentals I will use throughout my career"

--Milad Samadi, MiraCosta College graduate hired as a CAD technician

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# DESIGN PROGRAM

#### Architecture, Drafting, Engineering





Shaping Minds for Success.





## **DESIGN PROGRAM**

MiraCosta College's Design Program offers degrees, certificates, and courses in architecture, drafting, and engineering for students who want to obtain a certification for future employment, update their skills for present employment, and/or transfer to a four-year university.

"Our design program focuses on establishing a solid foundation for anyone interested in pursuing one of the many creative fields in design." —David Parker, Design Instructor

Courses are also offered for those who may not be pursuing a career in design and drafting, but who have an interest in, or need to understand, graphics communication and CAD tools.

The program uses state-of-the-art hardware and software. The department's Maker Lab allows students to design and make their ideas using 3D printers, 3D scanners, CNC machines, a laser cutter, and other cutting edge technology, such as virtual reality. Students use the latest CAD software including AutoCAD, Creo, Fusion, Revit, SketchUp, and SolidWorks.

"The software and hardware used in the college's drafting, architecture and engineering courses ensures that our students are using the latest and best tools available." —Paul Clarke, Design Instructor

## **PREPARE FOR A GREAT CAREER!**

The Design Program at MiraCosta College prepares students for careers in both public and private sector design and construction fields such as planning agencies, architectural practices, industrial manufacturing companies in life science, defense or sports and recreation. According to the California Employment Development Department the mean annual salary for architectural and engineering occupations in San Diego/Carlsbad/San Marcos is more than \$80,000.

"I took one drafting class at MiraCosta College and realized I wanted to be an engineer. Now I'm getting my Bachelor of Science from USC's School of Engineering!" —Isabel Greenway, MiraCosta College graduate







Students in the Design Program may choose to earn one or more of the following certificates, work toward an associate degree or complete requirements to transfer. For more information, please contact the Counseling Department at 760.795.6670 or consult the MiraCosta College catalog, available at **catalog.miracosta.edu/disciplines/design**.

## Certificates of Proficiency

Certificates of Proficiency are designed to be the first step in a career ladder. Typically requiring fewer than 18 units of course work, they introduce students to one aspect of a trade or occupation.

3D Modeling & Prototyping	17 units
Construction Management	15–17 units
Applied Design	16 units
Engineering Design Graphics	16 units
Drafting Fundamentals	10 units
AutoCAD Certified User	8 units
SolidWorks Certified User	7 units

## Certificates of Achievement

Certificates of Achievement are designed to prepare graduates for immediate employment in specific career areas.

Engineering Technology	32–35 units
Architectural Design	32 units
Computer-Aided Drafting & Design	29 units
Mechanical Design	26 units
Computer-Aided Drafting	24–25 units

#### Associate Degrees

MiraCosta College's Design Program offers the following associate degrees:

Engineering Technology Architectural Design Computer-Aided Drafting & Design Mechanical Design Computer-Aided Drafting





## COURSES

MiraCosta College offers a wide range of classes that meet days, evenings and online. Courses transfer to architecture, engineering and design schools such as UC Berkeley, UC Riverside, San Diego State University, CSU Long Beach and NewSchool of Architecture & Design. Students interested in transferring to a university can make a free appointment with a Transfer Center counselor.

## GAIN EXPERIENCE OUTSIDE THE CLASSROOM

Activities outside the classroom include industry tours, internships, design build projects, Design student club activities and projects.



Students pictured constructing a design build structure for their course on Construction Materials



"After completing my AA degree I got a fulltime CAD position at Berg Electric doing pre-construction and design work. The Design Program at MiraCosta prepared me for a great job with a good local company!" —Todd Silva,

MiraCosta College graduate employed fulltime



"Talented, professional and thoughtful faculty in the Architecture, Engineering and Landscape departments at MiraCosta helped me gain the skills and knowledge to change the trajectory of my career path. I am now in the MLA

graduate program at CalPoly." —Melissa Butler, CPP MLA Candidate, Class of 2015