

# DESIGN PROGRAM

Architecture, Drafting, Engineering

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](http://miracosta.edu/design)



**MIRACOSTA COLLEGE**  
Design Program  
[miracosta.edu/design](http://miracosta.edu/design)  
[facebook.com/mccdesign](https://facebook.com/mccdesign)

**Paul Clarke**  
Instructor  
▶ 760.757.2121, x6405  
▶ [pclarke@miracosta.edu](mailto:pclarke@miracosta.edu)

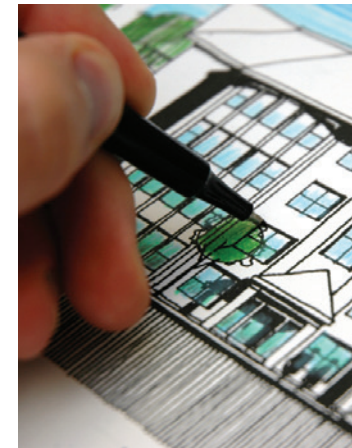
**David Parker**  
Instructor  
▶ 760.757.2121, x6557  
▶ [dparker@miracosta.edu](mailto:dparker@miracosta.edu)

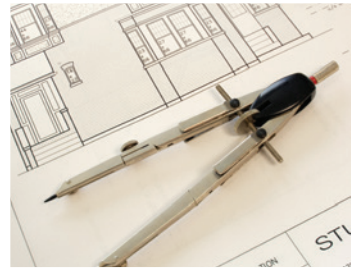
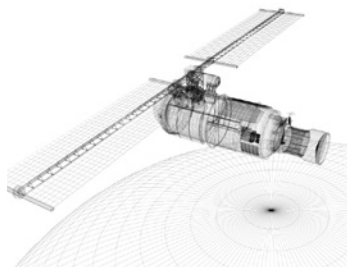


*"MiraCosta College's Design Drafting Program taught me detailed skills that prepared me for my current job and gave me the fundamentals I will use throughout my career"*

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

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## DESIGN PROGRAM

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 technology and software. Software subscriptions guarantee that CAD and BIM software such as AutoCAD, Revit, SolidWorks and SketchUp are updated every year. With the college's six rapid prototyping machines and two 3D scanners, students are able to design and model their work using cutting edge technology.

*"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

## DESIGN PROGRAM CERTIFICATES & ASSOCIATE DEGREES

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](http://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.

<b>3D Modeling &amp; Prototyping</b>	<b>17 units</b>
<b>Applied Design*</b>	<b>16-17 units</b>
<b>Construction Management</b>	<b>15-17 units</b>
<b>Drafting Fundamentals</b>	<b>11 units</b>
<b>Engineering Design Graphics</b>	<b>15 units</b>

\*With an emphasis in Interior Design or Industrial Design.

### Certificates of Achievement

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

<b>Architectural Design</b>	<b>32 units</b>
<b>Computer-Aided Drafting &amp; Design**</b>	<b>27-29 units</b>
<b>Computer-Aided Drafting**</b>	<b>24-26 units</b>
<b>Mechanical Design</b>	<b>23 units</b>

\*\*With an emphasis in Architecture, Engineering or Landscape.

### Associate Degrees

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

<b>Architectural Design</b>
<b>Computer-Aided Drafting &amp; Design</b>
<b>Computer-Aided Drafting</b>
<b>Mechanical Design</b>

## 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