GIS stands for Geographic Information Systems. It is a computer tool that allows users to see trends and patterns in hurricanes, spending, crimes, diseases, energy use, or other types of geographic data.

Palomar College offered its first course in Geographic Information Systems (GIS) in 2000. Since then, it has offered ten additional courses in the field. It now offers not only a Certificate of Achievement and a Certificate of Proficiency in GIS, but also an Associate’s Degree in GIS.

The GIS program at Palomar College provides theoretical and technical training to students who are interested in pursuing an exciting and rewarding career in this ever-growing field. The entire program can be completed with as little as two semesters of part-time study.

In order to accommodate full-time students and working adults, classes required for the GIS program are offered on weekday evenings, and meet only once or twice per week.

**Certificate of Proficiency**

**Required Courses**
- GEOG 120 Introduction to GIS and GIS Software*
- GEOG 132 Database Management and Data Acquisition
- GEOG 134 GIS Applications and Programming
- GEOG 136 Intermediate ArcGIS: GIS Analysis
- GEOG 138 GIS Internship OR
- GEOG 139 GIS Specialist Internship^**

**A.S. Degree Major or Certificate of Achievement**

**Required Courses**
- GEOG 120 Introduction to GIS and GIS Software*
- GEOG 132 Database Management and Data Acquisition
- GEOG 136 Intermediate ArcGIS: GIS Analysis
- GEOG 134 GIS Applications and Programming
- GEOG 138 GIS Internship OR
- GEOG 139 GIS Specialist Internship^**

**Specialized Concentration Courses (Select two)**
- GEOG 140 Remote Sensing and Satellite Imagery Analysis
- GEOG 141 Transportation Systems Analysis
- GEOG 142 Environmental Applications of GIS
- GEOG 143 Cartography and Computer Mapping
- GEOG 150 Geographic Information Science and Spatial Reasoning**

**Elective Courses (Select one)**
- DT 110 Technical Drafting I with AutoCAD
- CSIT 150 Introduction to SQL
- CSWB120 Javascript

*Can be substituted with articulated course taken at high schools.
** Satisfies Palomar College general education requirement.
^ College approval pending.

Please contact Palomar College’s CTE Transitions Office (jnelson@palomar.edu) for a list of participating high schools.

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**Planning for the Future**

Past GIS students, interns, and graduates have worked with:
- City of San Marcos
- City of Oceanside
- City of Vista
- City of Encinitas
- City of Poway
- City of Coronado
- County of San Diego
- Dudek
- San Diego Archaeological Center
- San Diego Botanical Garden
- Environmental Health Coalition
- Valley Center Municipal Water District
- Vallecitos Water District
- California Department of Transportation
- Integrated Spatial Solutions Inc.
- And many more...

**Did you Know...?**

- CNN ranked GIS Analyst as one of its “Top 100 Best Jobs in America.”
- The U.S. Department of Labor estimated that 150,000 GIS professionals will be needed in the next 10 years.
- The U.S. Department of Labor listed Geospatial Technology as 1 of its 13 “High Growth Industries.”
- The Bureau of Labor statistics reported that the median annual wage for cartographers and photogrammetrists was $54,510 in May 2010.
- The U.S. Department of Labor labeled GIS Technicians and Scientists as Green Careers with a Bright Outlook.
Do you….

Enjoy reading or designing maps?
Want to know how your car’s GPS works?
Use Google Maps, MapQuest, or Google Earth?
Enjoy looking at aerial photos or satellite images?
Ever wonder where crimes are concentrated in your neighborhood? And why?
Want to learn skills that will make you more competitive in the job market or your current workplace?
Wonder how emergency personnel find your address by using your phone number?

If you answered YES to any of the questions above, you should definitely consider Palomar College’s program in Geographic Information Systems.

Scan this QR Barcode with your smart phone and learn more about our department.

For more information, please contact:

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Room NS-110 M
San Marcos, CA 92069
Phone Number: (760)744-1150 Ext. 3652
Email: wcheung@palomar.edu
Website: http://www2.palomar.edu/users/wcheung

Need a Job?

Map your future career by learning the GIS technology that is powering Google Earth.

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