

What is GIS?

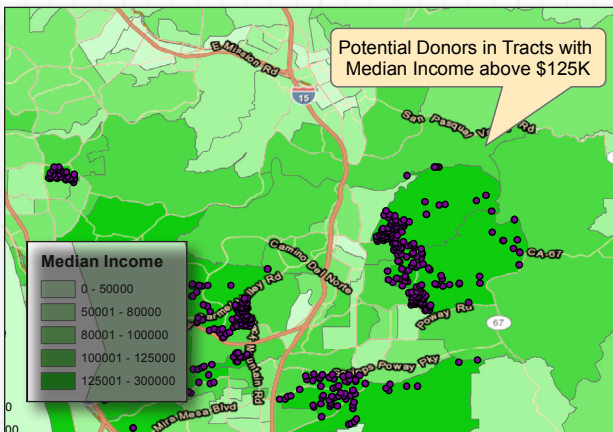
GIS stands for Geographic Information Systems.

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. Now, Palomar College 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 studies.

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.



The Curriculum

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 134 GIS Applications and Programming
 GEOG 136 Intermediate ArcGIS: GIS Analysis
 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 144 Internet Mapping and Application Development
 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.

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

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...
- The American Red Cross
- Feeding America
- City of Carlsbad
- The Global Energy Network Institute
- U.S. Fish and Wildlife Service
- Orange County Fire Authority
- City of Del Mar
- Interfaith
- Compass Rose GIS

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 a Bright Outlook occupation.

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?

Know that GIS can be used in virtually all of your classes?

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 Barcodes** with your smart phone and learn more.

Wing Cheung Website:
www2.palomar.edu/users/wcheung



GIS Website:
www2.palomar.edu/pages/gis

For more information,
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Palomar Geospatial Map your Future

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Need a Job?

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