Applied GIS and Spatial Studies - Certificate of Achievement

+If you have completed coursework at another college and/or are starting in a semester other than a Fall term, please follow up with the Counseling Department to determine if this sequence is appropriate for your academic and career goals.

Program Description: Applied GIS & Spatial Studies uses multi-dimensional representations of information to help structure problems, find answers, and express solutions. The ability to visualize and interpret relationships through space is essential for understanding content and solving problems across a wide spectrum of disciplines in the earth sciences, environmental sciences, social sciences, business, urban planning, public safety and health sciences. With this certificate, students will use spatial thinking, analysis, modeling, and mapping skills to interpret and present information.

Program SLO: Students will apply principles of Spatial Science and GIS to solve spatial problems and inquiries in their field of study

<u>Important Information:</u> For students interested in earning an Associate's degree and/or transfer, please follow up with the Counseling Office for additional information @ https://www.canyons.edu/counseling or (661) 362-3288/(661)362-3811.

Major courses are sequenced and **BOLDED** based on recommendations by the <u>Earth and Space Sciences Department</u>

First Semester (3-9 units minimum) FA = Fall; WI = Winter; SP = Spring; SU = Summer

| Course | Title | Units | Major Courses |
|-------------|--------------------------------------------------------------|-------|---------------|
| GEOGRPH 110 | Maps and Spatial Reasoning (FA) | 3 | Major |
| GIS 101 | Intro to Geographic Information Systems (FA) | 3 | Major |
| FOCUS AREA | Select one course from major focus area - See Table Below | 3-4 | Major |
| | Term Totals: | 9-10 | |

Second Semester (10 - 19 units minimum)

| Course | Title | Units | Major Courses |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------|
| GIS 102 | Applied Techniques for GIS (SP) | 3 | Major |
| MATH 140 OR MATH 140H OR MATH 140X OR PYSCH 104 OR SOCI 137 | Introductory Statistics (FA, WI, SP, SU) or Introductory Statistics Honors (FA, SP) or Statistics with Support (FA, SP) or Statistics for the Behavioral Sciences (FA, SP) or Statistics for the Social Sciences (FA, SP) | 4-5 | Major |
| FOCUS AREA | Select one course from major focus area - See Table Below | 3-4 | Major |
| | Term Totals: | 10-12 | |

Check the Honors website for most recent course offerings. Must be enrolled in the Honors program to take courses

Total Units: 19-22

Select six to eight units from one of the following focus areas:

| Administration of Justice Focus | | |
|---------------------------------|------------------------------------------------------------|---|
| ADMJUS 101 | Introduction to Administration of Justice (FA, WI, SP, SU) | 3 |
| ADMJUS 155 | Criminal Investigation (FA, SP, SU) | 3 |

| Anthropology and Archeology Focus | | |
|-----------------------------------|----------------------------------------|---|
| ANTHRO 101/101H | Physical Anthropology (FA, WI, SP, SU) | 3 |
| ANTHRO 103/103H | Cultural Anthropology (FA, WI, SP, SU) | 3 |
| ANTHRO 105 | Introduction to Archeology (FA, SP) | 3 |
| ANTHRO 210 | Indians of California (FA, SP) | 3 |

| Architecture Focus | | | |
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| Biology Focus | Architecture Focus | | |
| Biology Focus BioSci 106/106H Organismal & Environmental Biology (FA, WI, SP, SU) 4 BioSci 115 General Zoology (FA) 4 4 BioSci 116 General Biology (FA, SP) 3 3 4 BioSci 110 Contemporary Issues in Environmental Biology (FA, SP) 3 3 Biusiness Focus Bius 100 Introduction to Business (FA, WI, SP, SU) 3 3 Bius 100 Business Entrepreneurship (FA, SP) 3 3 Bius 140 Principles of Marketing (FA, SP) 3 3 Bius 141 Principles of Advertising (FA, SP) 3 3 3 3 3 3 3 3 3 | ARCHT 120 | Design I - Elements of Architectural Drafting (FA, SP) | 3 |
| BIOSCI 106/106H | ARCHT 200A | Sustainable Development & Environmental Design (S)_ | 3 |
| BIOSCI 106/106H | | • | |
| BIOSCI 106/106H | Biology Focus | | |
| BIOSCI 115 General Zoology (FA) 4 | | Organismal & Environmental Biology (FA, WI, SP, SU) | 4 |
| BIOSCI 130 Contemporary Issues in Environmental Biology (FA, SP) 3 | BIOSCI 115 | | 4 |
| Business Focus Bus 100 | BIOSCI 116 | General Botany (SP) | 4 |
| BUS 100 Introduction to Business (FA, WI, SP, SU) 3 BUS 117 Business Entrepreneurship (FA, SP) 3 BUS 140 Principles of Marketing (FA, SP) 3 BUS 141 Principles of Advertising (FA, SP) 3 BUS 141 Principles of Advertising (FA, SP) 3 BUS 141 Principles of Advertising (FA, SP) 3 Environmental Focus ENVRMT 101 Introduction to Environmental Studies (FA, WI, SP, SU) 3 ENVRMT 103 Introduction to Environmental Science (FA, SP) 4 ENVRMT 104 Energy Resources Conservation (FA, SP) 3 FIRET Control Principles of Emergency Services (FA, SP, SU) 3 FIRETC 101 Principles of Emergency Services (FA, SP, SU) 3 FIRETC 102 Fire Prevention (FA, WI, SP) 3 FIRETC 123 Fire Investigation (Varies) 3 Geography Focus GEOGPRH 100/100H Physical Geography (FA, WI, SP, SU) 3 GEOGPRH 100 Human Geography (FA, WI, SP, SU) 3 GEOGPRH 102 Human Geography (FA, WI, SP, SU) 3 GEOGPRH 104 World Regional Geography (FA, WI, SP, SU) 3 GEOGPRH 105 California Geography (FA, WI, SP, SU) 3 GEOGPRH 105 California Geography (FA, SP) 3 GEOLOGY 100 Physical Geology (FA, SP) 4 GEOLOGY 101 Physical Geology (FA, SP) 4 GEOLOGY 102 Historical Geology (FA, SP) 4 GEOLOGY 103 Historical Geology (FA, SP) 3 GEOLOGY 104 Environmental Studies (FA) 5 GEOLOGY 105 California Geology (FA, SP) 3 GEOLOGY 106 California Geology (FA, SP) 3 GEOLOGY 107 California Geology (FA, SP) 3 GEOLOGY 108 California Geology (FA, SP) 3 GEOLOGY 109 California Geology (FA, SP) 3 GEOLOGY 101 Introduction to Global Studies (FA) 3 GEOLOGY 105 California Geology (FA, SP) 3 GEOLOGY 107 California Geology (FA, SP) 3 GEOLOGY 108 California Geology (FA, SP) 3 GEOLOGY 109 California Geology (FA, SP) 3 GEOLOGY 101 Introduction to Global Studies (FA) 3 GEOLOGY 105 California Geology (FA, SP) 3 GEOGRAPH 104 World Regional Geography (FA, SP, SU) 3 GEOGRAPH 104 World Regional Geography (FA, SP, SU) 3 GEOGRAPH 104 World Regional Geography (FA, SP, SU) 3 GEOGRAPH 104 World Regional Geography (FA, SP, SU) 3 GEOGRAPH 104 World Regional Geography (FA, SP, SU) 3 GEOGRAPH 104 World Regional Geography (FA, SP, SU) 3 GEO | BIOSCI 130 | Contemporary Issues in Environmental Biology (FA, SP) | 3 |
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| | POLISC 270 | International Relations (FA, SP) | 3 |
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| | Marine Sciences Focus | | |
| BISOCI 119 Marine Biology (Varies) 4 | | | |
| OCEAN 101 Introduction to Oceanography (FA, SP, SU) 4 | OCEAN 101 | Introduction to Oceanography (FA, SP, SU) | 4 |

| Public Health Focus | | |
|---------------------|----------------------------------------|---|
| HLHSCI 100 | Health Education (FA, WI, SP, SU) | 3 |
| HLHSCI 140 | Introduction to Public Health (FA, SP) | 3 |

| Real Estate Focus | | |
|-------------------|-----------------------------------------|---|
| REAL 100 | Real Estate Principles (FA, WI, SP, SU) | 3 |
| REAL 101 | Real Estate Practices (FA, SP, SU) | 3 |
| REAL 120 | Real Estate Appraisal (FA) | |

| Sociology Focus | | |
|-----------------|-------------------------------------------------------------------|---|
| SOCI 101/101H | Introduction to Sociology (FA, WI, SP, SU) | 3 |
| SOCI 102 | Introduction to Sociological Research (FA, SP, SU) | 3 |
| SOCI 104 | Introduction to Social Justice Studies | 3 |
| SOCI 207 | Social Problems (FA, WI, SP, SU) | 3 |
| SOCI 210 | Sociology of Deviance, Crime, and Social Control (FA, WI, SP, SU) | 3 |
| SOCI 250 | Introduction to Criminology (FA, WI, SP, SU) | 3 |

Counseling Resources

Earth and Space Sciences Department: https://www.canyons.edu/academics/earthsciences/index.php

Counseling Department: https://www.canyons.edu/studentservices/counseling/index.php

Honors Program: https://www.canyons.edu/academics/honors/index.php

Campus Alliances: https://www.canyons.edu/administration/ie2/equity/alliances.php

Petition for Certificate – Petitions are due in the fall/spring/summer term you will complete the requirements, and may be submitted before your last term or up until the final day of the term. Petitions must reviewed with a counselor and may be downloaded here:

 $\underline{https://www.canyons.edu/_resources/documents/studentservices/admissions/Petition_for_Certificate_of_Special_ization.pdf}$

Career Resources

California Career Zone: www.cacareerzone.org

O*Net Online: www.onetonline.org

Bureau of Labor and Statistics: www.bls.gov