# APPLICATION FOR PROGRAM APPROVAL:

**NEW or SUBSTANTIAL CHANGE or LOCALLY APPROVED**

***Cover Sheet Information***

## College Name: Mt. San Antonio College

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### Please check the box below to reflect the program status:

 **NEW PROGRAM** **SUBSTANTIAL CHANGE X****LOCALLY APPROVED**

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| --- | --- |
| ***SECTION*** | ***DESCRIPTION*** |
| ***1a Justification of change or addition***  ***Note: This is new information required by the CCCCO .***  ***It is not mentioned in the Program and Course Review Handbook (PCAH), nor is it included on the current CCCCO cover sheet. Mt. SAC has added this box to address the new requirement.*** | The U.S. Bureau of Labor Statistics has stated that geospatial-based occupations are expected to grow faster than average for all occupations over the coming years, with the need for geographic information being a main source for such growth. The Certificate of Achievement in Geographic Information Systems (GIS) will expand the program and offer an option for students looking to update their geospatial skills and enhance their marketability in the workforce.  In collaboration with industry, the department has developed the program which will offer students the opportunity to learn technical skills that can be applied in a multitude of courses and disciplines, such as crime analysis, architecture, business, and archaeology to name a few. |
| ***1b.SP02 Program Award Associate in Science or Certificate of***  ***Achievement*** | Certificate of Achievement  AS Degree |
| ***2.Program Title*** | Geographic Information Systems (GIS) |
| ***3.Program Goal (CTE or CTE & Transfer)*** | CTE |
| ***4. SP01: Program TOP code*** | 220610 |
| *5.Effective Date:* ***Entered by Curriculum Office*** |  |
| * 1. *Units for Degree Major or Area of Emphasis (Minimum)*   2. *Units for Degree Major or Area of Emphasis (Maximum)*   ***Disregard for Certificates*** | 20 |
| * 1. ***Total Units for Degree or Certificate (Minimum)***   2. ***Total Units for Degree or Certificate (Maximum)*** | 60 |
| ***8.Annual Completers*** | There are five community colleges in the LA/OC region that issue awards related to GIS and surveying, conferring an average of 78awards annually between 2016 -2019. |
| *9.****Net Annual Labor Demand (CTE Only)*** | Based on the labor market supply and demand data, the COE has determined that there may be an unmet need for the GIS program in Los Angeles County. Here are a few important notes to consider:  1. Supply Gap Criteria – Over the next five years, there is projected to be 1,976 jobs available annually in the region due to new job growth and replacements, which is  more than the 101 awards conferred annually by educational institutions in the region.  2. In Los Angeles/Orange County, the number of jobs related to GIS occupations is projected to increase by 1% through 2024. There will be nearly 2,000 job openings per year through 2024 due to job growth and replacements.  3. There were 329 online job postings related to geographic information systems listed in the past 12 months.  4. Within the LA/OC region, 92% of the annual job openings for occupations related to geographic information systems typically require a bachelor’s degree. |
| *10.****Faculty Workload*** | 1 |
| *11****. New Faculty Positions*** | There will be a need for a new full-time faculty position |
| *12.* ***New Equipment*** | None needed |
| *13.* ***New/Remodeled Facilities*** | None needed |
| *14****. Library Acquisitions*** |  |
| *15. Program Review Date-*  ***Entered by Curriculum Office*** |  |
| *16. Gainful Employment-****Disregard*** | * Yes No |
| *17. Apprenticeship* ***Disregard*** | * Yes No |
| *18. Distance Education-****Disregard*** | Hybrid  0-49%  50-99%  100% |
| *19. CTE Regional Consortia Approval (CTE only)*  ***Entered by Curriculum Office*** | * Yes No |
| *20. District Governing Board Approved*  ***Entered by Curriculum Office*** | * Yes No |
| *21. District Governing Board Approval Date*  ***Entered by Curriculum Office*** |  |

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