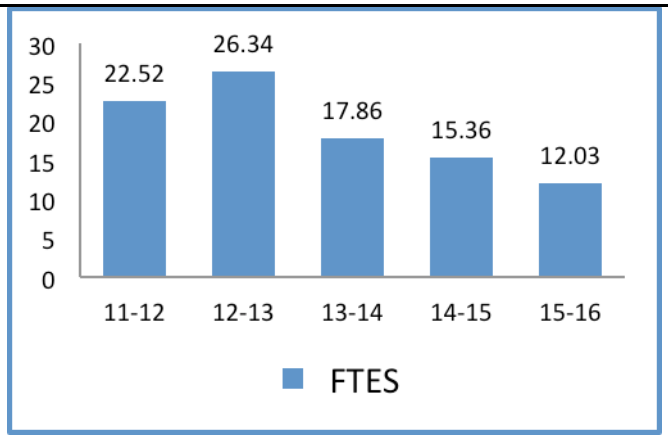
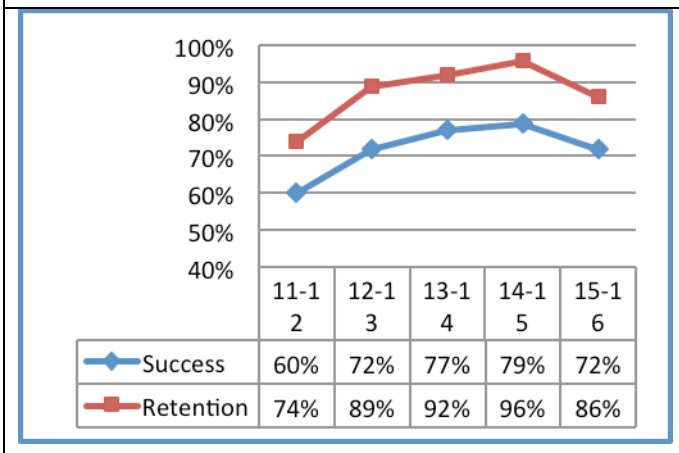
GEOGRAPHIC INFORMATION SYSTEMS (GIS) — 2015-2016



	10-11	11-12	12-13	13-14	14-15	15-16
Duplicated Enrollment	239	173	187	134	101	81
FTEF	2.45	2.45	1.95	2.22	1.66	2.35
WSCH per FTEF	389	276	405	241	278	154



	10-11	11-12	12-13	13-14	14-15	15-16
Sections	15	15	12	17	20	20
% of online enrollment	27%	0%	0%	0%	0%	20%
Degrees awarded	N/A	N/A	N/A	N/A	N/A	N/A
Certificates awarded	0	14	7	17	5	

TOP Code: 079900
Award Source: http://datamart.cccco.edu/Outcomes/Program_Awards.aspx
*Data will be available in October 2016

Description: The GIS Certificate is designed to provide the skills and knowledge necessary for immediate entry-level employment for persons interested in Geographic Information Systems (GIS) and automated mapping technology.
The GIS Certificate provides a foundation for transfer to four year and graduate education within the fields of GIS, Geography, Remote Sensing, Environmental and Earth Sciences.

Assessment:

- FTES and enrollment rates have declined since 2012-13, possibly due to insufficient marketing and dearth of online courses. Recruitment efforts and curriculum approval for online courses will be the focus. This may be partially addressed through the Perkins grant.
- Success and Retention rates have fluctuated, but have generally improved since 2011-12.
- The program lacks a full-time faculty assigned 100 percent to this discipline.
- Efficiency will increase with a larger student population, partially addressed through ongoing grant marketing and outreach activities.

Department Goals:

- Provide students with the skills needed to enter geospatial technology realted fields.
- Maintain laboratories with equipment and supplies needed for quality education.
- Advocate for full time faculty that could be shared with Geography and possibly Earth Science.
- Use grant funding to increase GIS awareness on and off campus.
- Develop service based learning and non-credit courses.
- Cultivate additional internship, employment, and professional conference opportunities.
- Expand distributed education (DE) courses such that students could earn the GIS Certificate online.

Challenges & Opportunities:

- There is a potential to increase enrollment in entry-level GIS courses for non-traditional GIS students.
- Strengthen partnership with local high schools, offering entry-level GIS courses, including ROP programs.
- Leverage grant funding for GIS tutors and SI leaders to extend lab hours.
- Lack of computer lab infrastructure to host simultaneous labs creates scheduling issues. Portable notebook computers are a partial solution.
- Lack of a full-time faculty curtails program development.

Action Plan:

- Partner with local agencies and businesses to provide internship opportunities, including non-credit options.
- Incorporate entry-level classes in other certificate and degree programs.
- Offer colloquium series – open to campus and community – focused on industry based GIS applications.
- Build on existing faculty, curricular, institutional, and industry relationships to increase student enrollment, transfer, and career placement.
- Hire a full-time GIS faculty member.