






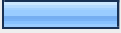






2010 Annual Survey of Geospatial Education Programs






1. In the past 12 months your geospatial program has:

	Response Percent	Response Count
Increased enrollment 	59.2%	61
Decreased enrollment 	8.7%	9
Steady enrollment 	25.2%	26
Just started 	3.9%	4
Terminated 	2.9%	3
Other (please specify)		5
answered question		103
skipped question		4

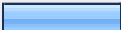




2. My geospatial program currently has the following number of enrolled majors:

	Response Percent	Response Count
5-10 	17.2%	16
11-20 	32.3%	30
21-30 	17.2%	16
31-40 	8.6%	8
41-50 	5.4%	5
50-100 	11.8%	11
100+ 	7.5%	7
Other (please specify)		14
answered question		93
skipped question		14

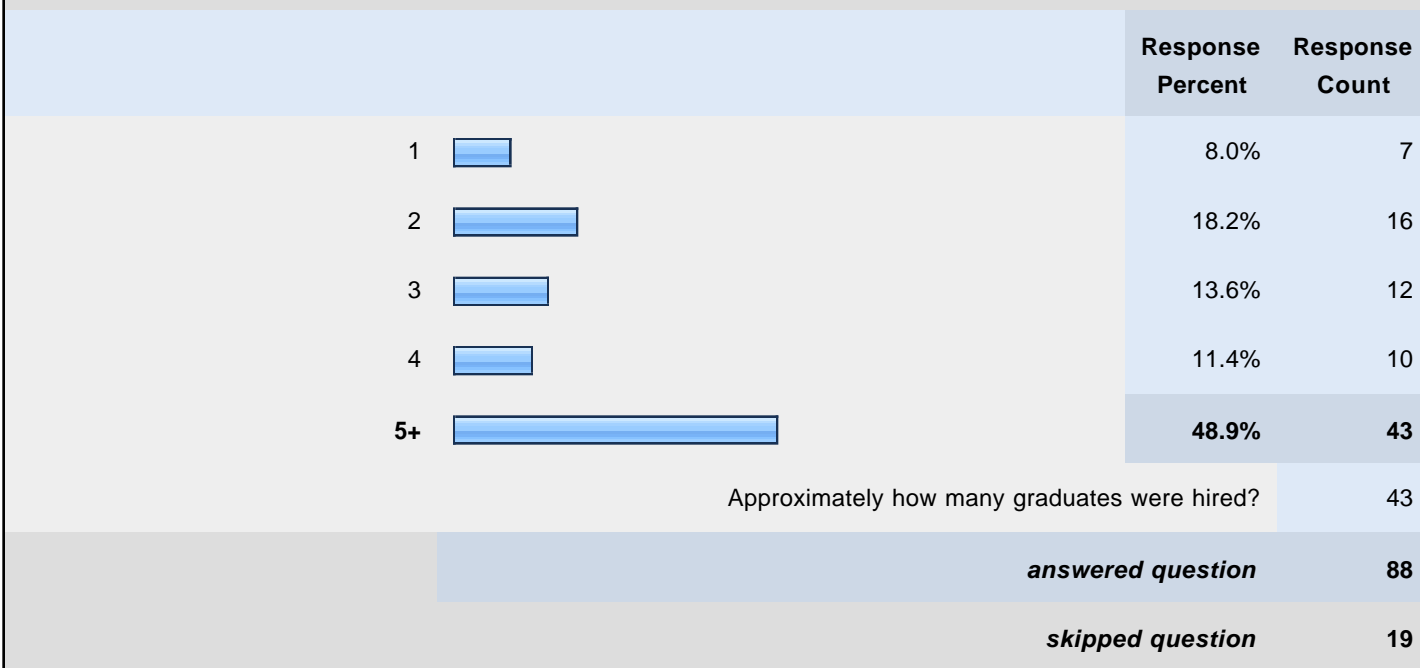
3. Which underserved population do you struggle with most to recruit into your program (that are not geographically related)?

	Response Percent	Response Count
Hispanic 	13.7%	14
African American 	32.4%	33
Native Indian 	12.7%	13
Women 	11.8%	12
Does Not Apply 	29.4%	30
	Other:	7
answered question		102
skipped question		5

4. Your largest source of new geospatial students is:

	Response Percent	Response Count
High school 	17.4%	16
Unemployed 	9.8%	9
Reverse transfer (already have an undergraduate degree) 	19.6%	18
Undecided college students 	21.7%	20
Workforce training 	31.5%	29
	Other:	16
answered question		92
skipped question		15

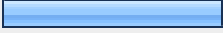




5. In the last 12 months, how many of your students have been hired into geospatial positions?



6. How many of your students that were hired into geospatial positions were hired into the following positions:

	0 - 20%	21 - 40%	41 - 60%	61 - 80%	81 - 100%	Rating Average	Response Count
Local Government	44.9% (31)	20.3% (14)	17.4% (12)	8.7% (6)	8.7% (6)	2.16	69
State Government	49.0% (24)	34.7% (17)	16.3% (8)	0.0% (0)	0.0% (0)	1.67	49
Engineering Firm	46.8% (22)	38.3% (18)	10.6% (5)	2.1% (1)	2.1% (1)	1.74	47
Surveying Firm	53.3% (16)	33.3% (10)	0.0% (0)	3.3% (1)	10.0% (3)	1.83	30
Environmental Consulting Firm	42.2% (19)	37.8% (17)	20.0% (9)	0.0% (0)	0.0% (0)	1.78	45
Self-employed Independent Contractor	76.5% (13)	17.6% (3)	0.0% (0)	5.9% (1)	0.0% (0)	1.35	17
					Other (please specify)		34
					<i>answered question</i>		86
					<i>skipped question</i>		21



7. Where are GIS and/or geospatial technology topics are taught in your college? (select all that apply):

	Response Percent	Response Count
As the main focus of workforce credit courses 	33.0%	33
As the main focus of nontechnical credit courses 	5.0%	5
As one component of another course 	17.0%	17
As a noncredit course 	2.0%	2
As an academic for credit course 	76.0%	76
	Other:	11
	<i>answered question</i>	100
	<i>skipped question</i>	7

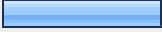
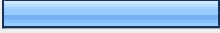



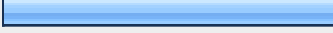
8. Rank the following issues by importance to your geospatial program:

	Not Important	Slightly Important	Undecided	Important	Most Important	Rating Average	Response Count
Secondary (High School) articulation	28.2% (29)	20.4% (21)	12.6% (13)	33.0% (34)	5.8% (6)	2.68	10
University articulation	9.0% (9)	14.0% (14)	6.0% (6)	54.0% (54)	17.0% (17)	3.56	10
Internships	2.9% (3)	2.9% (3)	9.7% (10)	49.5% (51)	35.0% (36)	4.11	10
Job opportunities	0.0% (0)	1.0% (1)	1.9% (2)	39.8% (41)	57.3% (59)	4.53	10
General education credit	9.8% (10)	23.5% (24)	16.7% (17)	43.1% (44)	6.9% (7)	3.14	10
General recruitment	4.0% (4)	7.9% (8)	11.9% (12)	58.4% (59)	17.8% (18)	3.78	10
Minority/underserved population recruitment	7.9% (8)	17.8% (18)	27.7% (28)	38.6% (39)	7.9% (8)	3.21	10
Grant writing	15.8% (16)	19.8% (20)	22.8% (23)	28.7% (29)	12.9% (13)	3.03	10
Curriculum development	2.9% (3)	9.7% (10)	7.8% (8)	49.5% (51)	30.1% (31)	3.94	10
Career pathways	2.9% (3)	2.9% (3)	6.9% (7)	64.7% (66)	22.5% (23)	4.01	10
Professional training for yourself and peers	3.0% (3)	10.9% (11)	5.9% (6)	54.5% (55)	25.7% (26)	3.89	10
Other (please specify)							
answered question							10
skipped question							

9. Do you currently have any course to course articulation agreements with 4-year universities?

	Response Percent	Response Count
Yes 	36.6%	37
No 	63.4%	64
If yes, please list the course titles.		46
answered question		101
skipped question		6



10. Please indicate which Web 2.0 Social Networking sites are important for your geospatial program.

	Response Percent	Response Count
Youtube 	23.5%	23
Facebook 	32.7%	32
LinkedIn 	16.3%	16
Twitter 	8.2%	8
Blogger 	6.1%	6
None, I don't use Web 2.0 	50.0%	49
Other (please specify)		16
answered question		98
skipped question		9


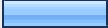

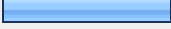



11. Indicate which software applications are important to your geospatial program.

	Not Important	Slightly Important	Undecided	Important	Most Important	Response Count
Google Earth	1.0% (1)	27.2% (28)	2.9% (3)	56.3% (58)	12.6% (13)	103
Bing Maps	30.4% (28)	23.9% (22)	18.5% (17)	23.9% (22)	3.3% (3)	92
NASA Whirl Wind	42.2% (35)	16.9% (14)	27.7% (23)	12.0% (10)	1.2% (1)	83
ArcGIS Explorer	18.2% (16)	27.3% (24)	9.1% (8)	29.5% (26)	15.9% (14)	88
ITT ENVI	40.4% (36)	13.5% (12)	14.6% (13)	20.2% (18)	11.2% (10)	89
ArcGIS	1.0% (1)	1.0% (1)	0.0% (0)	9.8% (10)	88.2% (90)	102
Smallworld	65.1% (56)	11.6% (10)	19.8% (17)	2.3% (2)	1.2% (1)	86
Autodesk	35.6% (32)	21.1% (19)	11.1% (10)	17.8% (16)	14.4% (13)	90
DeLorme	62.4% (53)	12.9% (11)	17.6% (15)	5.9% (5)	1.2% (1)	85
Intergraph	68.6% (59)	11.6% (10)	12.8% (11)	2.3% (2)	4.7% (4)	86
Multispec	56.8% (50)	13.6% (12)	21.6% (19)	5.7% (5)	2.3% (2)	88
PCI	69.8% (60)	5.8% (5)	19.8% (17)	2.3% (2)	2.3% (2)	86
Imagine	37.5% (33)	12.5% (11)	18.2% (16)	17.0% (15)	14.8% (13)	88
AutoCad	27.2% (25)	23.9% (22)	8.7% (8)	28.3% (26)	12.0% (11)	92
					Other (please specify)	26
					answered question	104
					skipped question	3





12. Do your GIS courses meet any general education requirements at your college?

	Response Percent	Response Count
Yes 	30.4%	31
No 	69.6%	71
If yes please list the course title and specify the general education requirement that it satisfies.		28
answered question		102
skipped question		5


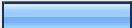
13. Have you referenced any of the following workforce studies or core curriculum projects in designing your GIS curriculum? (check all that apply)

	Response Percent	Response Count
UCGIS Body of Knowledge 	73.6%	53
NCGIA GIS Core Curriculum for Technical Program (CCTP) 	15.3%	11
NCGIA Core Curriculum in GIS 	52.8%	38
ASPRS Remote Sensing Core Curricula 	25.0%	18
USGIF Academy Curriculum 	9.7%	7
IAEGS Model Curriculum 	2.8%	2
Department of Labor Geospatial Technology Competency Model (GTCM) 	52.8%	38
Other Studies (please specify)		12
answered question		72
skipped question		35





14. In the past 12 months the demand for geospatial graduates in the local workforce has:

	Response Percent	Response Count
Increased 	24.8%	26
Decreased 	17.1%	18
Remained stable 	40.0%	42
No available data 	18.1%	19
<i>answered question</i>		105
<i>skipped question</i>		2

15. Have you heard of the GeoTech Center prior to this survey?

	Response Percent	Response Count
Yes 	81.0%	85
No 	19.0%	20
<i>answered question</i>		105
<i>skipped question</i>		2










16. If so, how did you learn about the GeoTech Center?

	Response Percent	Response Count
GeoTech Center website 	9.2%	7
Website other than GeoTech Center 	2.6%	2
Conference 	50.0%	38
Colleague 	38.2%	29
Other:		15
<i>answered question</i>		76
<i>skipped question</i>		31

17. The GeoTech Center will be hosting a series of professional development webinars throughout the year. Please indicate on a scale of 0 to 5 (0-least important, 5-most important) possible topics.

	Not Important	Slightly Important	Undecided	Important	Most Important	Rating Average	Response Count
Technical training on ESRI products	7.8% (8)	12.6% (13)	6.8% (7)	32.0% (33)	40.8% (42)	3.85	10
Technical training on ITT ENVI products	34.7% (34)	14.3% (14)	23.5% (23)	19.4% (19)	8.2% (8)	2.52	9
Technical training on other products	17.7% (17)	18.8% (18)	33.3% (32)	27.1% (26)	3.1% (3)	2.79	9
Expanding Geospatial Across the Disciplines and Campus	4.0% (4)	5.9% (6)	5.9% (6)	46.5% (47)	37.6% (38)	4.08	10
Developing Articulation Agreements	14.3% (14)	17.3% (17)	13.3% (13)	28.6% (28)	26.5% (26)	3.36	9
Free & Open Source Software for GIS (FOSS4G)	13.1% (13)	12.1% (12)	13.1% (13)	37.4% (37)	24.2% (24)	3.47	9
Other topic(s) you would like to see on a webinar							1
answered question							10
skipped question							

18. Please select your preferred method of receiving hands-on training from GeoTech workshops.

	Response Percent	Response Count
1 day workshops at local college 	24.8%	25
2 day workshops at local college 	23.8%	24
3 day workshops at local college 	7.9%	8
4-5 day workshops at local college 	2.0%	2
1 day workshops at national conference 	8.9%	9
2 day workshops at national conference 	3.0%	3
3 day workshops at national conference 	2.0%	2
4-5 day workshops at national conference 	1.0%	1
Webinar 	26.7%	27
	Other:	5
	<i>answered question</i>	101
	<i>skipped question</i>	6

19. The GeoTech Center seeks to offer the most relevant professional development. Geospatial technology is a rapidly developing field. Rank each of the following potential areas of emerging technology in relative importance to you as an educator. You can recommend topics not mentioned at the end of this question.

	Not Important	Slightly Important	Undecided	Important	Most Important	Response Count
Free and Open Source Software for GIS (FOSS4G)	8.8% (9)	21.6% (22)	11.8% (12)	42.2% (43)	15.7% (16)	102
GIS and Science Trends	2.0% (2)	10.0% (10)	6.0% (6)	55.0% (55)	27.0% (27)	100
GIS and CAD Trends	9.1% (9)	20.2% (20)	16.2% (16)	42.4% (42)	12.1% (12)	99
Enterprise GIS Trends	5.1% (5)	15.3% (15)	23.5% (23)	42.9% (42)	13.3% (13)	98
Server GIS Trends	7.1% (7)	15.3% (15)	17.3% (17)	37.8% (37)	22.4% (22)	98
Mobile GIS Trends	3.0% (3)	6.0% (6)	7.0% (7)	59.0% (59)	25.0% (25)	100
Cartography Trends in GIS	1.0% (1)	20.0% (20)	5.0% (5)	54.0% (54)	20.0% (20)	100
Remote Sensing Technology	0.0% (0)	11.0% (11)	2.0% (2)	60.0% (60)	27.0% (27)	100
Web-enabled GIS websites (Adobe FLEX, Microsoft Silverlight, etc.)	4.0% (4)	9.0% (9)	11.0% (11)	49.0% (49)	27.0% (27)	100
ArcExplorer	14.1% (14)	21.2% (21)	15.2% (15)	37.4% (37)	12.1% (12)	99
Google Earth	5.0% (5)	15.8% (16)	5.9% (6)	55.4% (56)	17.8% (18)	101
				Other (please specify)		7
answered question						103
skipped question						4

20. Rank which GeoTech Center website (www.geotechcenter.org) features are important to you.

	Not Important	Slightly Important	Undecided	Important	Most Important	Response Count	
Events calendar	10.6% (10)	24.5% (23)	20.2% (19)	39.4% (37)	5.3% (5)	94	
Blogs	21.9% (21)	28.1% (27)	27.1% (26)	20.8% (20)	2.1% (2)	96	
Administrative GIS case studies	9.5% (9)	26.3% (25)	25.3% (24)	32.6% (31)	6.3% (6)	95	
Academic GIS case studies	5.2% (5)	9.4% (9)	10.4% (10)	55.2% (53)	19.8% (19)	96	
Student recruitment videos	9.5% (9)	15.8% (15)	20.0% (19)	41.1% (39)	13.7% (13)	95	
Student professional portfolios	8.6% (8)	17.2% (16)	20.4% (19)	44.1% (41)	9.7% (9)	93	
Data resources	3.1% (3)	6.3% (6)	6.3% (6)	47.9% (46)	36.5% (35)	96	
Software resources	3.2% (3)	7.4% (7)	7.4% (7)	55.3% (52)	26.6% (25)	94	
Curriculum resources	1.0% (1)	8.2% (8)	7.2% (7)	40.2% (39)	43.3% (42)	97	
Textbook recommendations	5.3% (5)	10.5% (10)	11.6% (11)	46.3% (44)	26.3% (25)	95	
Job search	3.2% (3)	12.8% (12)	12.8% (12)	41.5% (39)	29.8% (28)	94	
Internship search	5.4% (5)	10.9% (10)	9.8% (9)	48.9% (45)	25.0% (23)	92	
				Other (please specify)		3	
						answered question	97
						skipped question	10

21. The GeoTech Center seeks to partner with a number of nonprofit organizations to provide better access and services for our geospatial educators nationwide. Rank each of the following organizations based on their value to you professionally.

	Not Important	Slightly Important	Undecided	Important	Most Important	Rating Average	Response Count
Geospatial Infrastructure Technology Association (GITA)	6.7% (6)	24.4% (22)	17.8% (16)	42.2% (38)	8.9% (8)	3.22	9
Urban & Regional Information Systems Association (URISA)	6.6% (6)	18.7% (17)	15.4% (14)	39.6% (36)	19.8% (18)	3.47	9
National Council of Geographic Educators (NCGE)	8.0% (7)	19.3% (17)	17.0% (15)	36.4% (32)	19.3% (17)	3.40	8
University Consortium of Geographic Information Science (UCGIS)	7.8% (7)	20.0% (18)	20.0% (18)	38.9% (35)	13.3% (12)	3.30	9
Regional ESRI User Groups	1.1% (1)	13.2% (12)	8.8% (8)	52.7% (48)	24.2% (22)	3.86	9
American Association of Geographers (AAG)	7.8% (7)	18.9% (17)	17.8% (16)	36.7% (33)	18.9% (17)	3.40	9
American Society for Photogrammetry and Remote Sensing (ASPRS)	4.5% (4)	20.2% (18)	23.6% (21)	27.0% (24)	24.7% (22)	3.47	8
Cartography and Geographic Information Society (CaGIS)	6.7% (6)	30.3% (27)	29.2% (26)	24.7% (22)	9.0% (8)	2.99	8
Other (please specify):							
							answered question
							skipped question

22. Please select the statement(s) that best describes you:

	Response Percent	Response Count
I am a community college instructor and teach GIS	56.3%	49
I am a community college instructor that might teach GIS in the future	4.6%	4
I am a community college administrator	3.4%	3
I work at a 4-year university and teach GIS	34.5%	30
I conduct GIS workforce studies	0.0%	0
I represent a professional society as a staff person or board member	1.1%	1
I am a GIS professional that works outside of education	0.0%	0
I am an employer of GIS professionals	0.0%	0
Other:		9
answered question		87
skipped question		20

23. Does your institution offer Geospatial courses? (GIS, GPS, Remote Sensing, Surveying)

	Response Percent	Response Count
Yes	97.8%	91
No	2.2%	2
If no, do you plan on offering a course/program in the near future?		4
answered question		93
skipped question		14

24. Does your college offer any courses, certificates, or degrees in Geospatial Technologies (ie. GIS, GPS, Remote Sensing)?

	Response Percent	Response Count
Courses only	23.9%	22
Certificate	45.7%	42
AA or AS Degree	10.9%	10
Both Certificate and AA or AS Degree	25.0%	23
Non-academic Workforce Development courses or workshops	8.7%	8
No	8.7%	8
Don't know	0.0%	0
answered question		92
skipped question		15

25. GIS and/or geospatial technology courses are taught in your college as part of what type of program? (select all that apply)

	Response Percent	Response Count
Academic (credit only)	61.1%	55
Career Technical Education (CTE only)	18.9%	17
Both Academic and CTE	24.4%	22
Non-credit extension program or workforce development course (non-credit)	12.2%	11
Other (please explain)		3
answered question		90
skipped question		17

26. Are any of the courses, certificates, or degrees offered as Distance Education?

	Yes	No	Response Count
Courses only	47.6% (40)	52.4% (44)	84
Certificate	25.4% (18)	74.6% (53)	71
AA or AS Degree	9.5% (6)	90.5% (57)	63
Both Certificate and AA or AS Degree	6.6% (4)	93.4% (57)	61
Non-academic Workforce Development courses or workshops	12.9% (8)	87.1% (54)	62
		Other (please specify)	9
		<i>answered question</i>	88
		<i>skipped question</i>	19

27. Please enter the number of courses, or zero if none, in the boxes below. (0, 1, 2, 3, 4 or more, don't know)

	Response Average	Response Total	Response Count
GIS	4.36	397	91
GPS	1.11	93	84
Mapping Technology	1.07	80	75
Remote Sensing	1.10	89	81
Database	1.08	81	75
Web-based GIS	0.35	26	74
Cartography	0.87	69	79
Programming	1.09	81	74
CAD	1.76	132	75
Other	0.86	30	35
	<i>answered question</i>		92
	<i>skipped question</i>		15

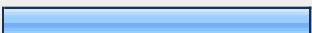

28. Rank the following issues in importance to your geospatial program.

	Not Important	Slightly Important	Undecided	Important	Most Important	Response Count
Secondary articulation	22.4% (19)	20.0% (17)	14.1% (12)	31.8% (27)	11.8% (10)	85
University articulation	10.5% (9)	11.6% (10)	5.8% (5)	50.0% (43)	22.1% (19)	86
Interships	3.6% (3)	4.8% (4)	3.6% (3)	44.0% (37)	44.0% (37)	84
Job opportunities	2.3% (2)	1.1% (1)	1.1% (1)	42.5% (37)	52.9% (46)	87
General education credit	14.0% (12)	22.1% (19)	8.1% (7)	44.2% (38)	11.6% (10)	86
General recruitment	3.5% (3)	12.9% (11)	5.9% (5)	50.6% (43)	27.1% (23)	85
Minority/underserved population recruitment	8.1% (7)	20.9% (18)	18.6% (16)	40.7% (35)	11.6% (10)	86
Grant writing	17.6% (15)	17.6% (15)	15.3% (13)	36.5% (31)	12.9% (11)	85
Curriculum development	2.3% (2)	4.7% (4)	5.8% (5)	47.7% (41)	39.5% (34)	86
Professional training for yourself and peers	2.3% (2)	7.0% (6)	7.0% (6)	50.0% (43)	33.7% (29)	86
				answered question		87
				skipped question		20

29. What do you see as barriers to offering geospatial education? Please rank each barrier on a scale of 0 to 5. (0-no barrier, 5-significant barrier)

	No Barrier	Slight Barrier	Undecided	Large Barrier	Significant Barrier	Response Count
Lack of workforce demand	31.5% (28)	28.1% (25)	12.4% (11)	19.1% (17)	9.0% (8)	89
Lack of student interest	17.0% (15)	43.2% (38)	12.5% (11)	14.8% (13)	12.5% (11)	88
Lack of administrative support	37.9% (33)	27.6% (24)	12.6% (11)	13.8% (12)	8.0% (7)	87
Lack of qualified faculty to teach this program	33.0% (29)	30.7% (27)	11.4% (10)	17.0% (15)	8.0% (7)	88
Lack of curriculum guidelines	37.5% (33)	34.1% (30)	11.4% (10)	13.6% (12)	3.4% (3)	88
Lack of teaching resources	36.4% (32)	34.1% (30)	9.1% (8)	17.0% (15)	3.4% (3)	88
Lack of IT support	33.3% (30)	25.6% (23)	7.8% (7)	24.4% (22)	8.9% (8)	90
Lack of student access to software outside of lab	34.8% (31)	24.7% (22)	6.7% (6)	16.9% (15)	16.9% (15)	89
Lack of student access to software in lab	71.9% (64)	15.7% (14)	4.5% (4)	5.6% (5)	2.2% (2)	89
Lack of data access	40.2% (35)	32.2% (28)	13.8% (12)	12.6% (11)	1.1% (1)	87
				Other (please comment)		5
				answered question		92
				skipped question		15

30. What do you consider the most advantageous way to teach GIS?

	Response Percent	Response Count
Within the context of a discipline or application. 	46.3%	38
In a dedicated Geospatial Discipline (such as geography). 	53.7%	44
Other (please specify)		10
	<i>answered question</i>	82
	<i>skipped question</i>	25





31. What type of audiences do you serve in your Geospatial courses? (specify the approximate percent of students from each category)

	less than 10%	10 to 20%	20 to 30%	30 to 40%	40 to 50%	50 to 60%	60 to 70%	70 to 80%	80 to 90%	more than 90%	Res C
Students who plan on transferring to a 4-year insitution	48.1% (39)	17.3% (14)	17.3% (14)	2.5% (2)	2.5% (2)	2.5% (2)	6.2% (5)	0.0% (0)	0.0% (0)	3.7% (3)	
Students pursuing a 2-year vocational degree or certificate	25.0% (20)	12.5% (10)	15.0% (12)	12.5% (10)	2.5% (2)	3.8% (3)	6.3% (5)	5.0% (4)	8.8% (7)	8.8% (7)	
Working professionals (students that have a Bachelor's or higher and are seeking additional skills/knowledge for their current job)	21.2% (18)	25.9% (22)	15.3% (13)	14.1% (12)	2.4% (2)	9.4% (8)	2.4% (2)	3.5% (3)	2.4% (2)	3.5% (3)	
Working professionals (students that do not have a degree and are seeking additional skills/knowledge for their current job)	39.0% (32)	30.5% (25)	14.6% (12)	4.9% (4)	1.2% (1)	0.0% (0)	3.7% (3)	2.4% (2)	1.2% (1)	2.4% (2)	
University students pursuing a 4-year degree and/or graduate degree	49.4% (41)	10.8% (9)	7.2% (6)	2.4% (2)	2.4% (2)	1.2% (1)	4.8% (4)	9.6% (8)	2.4% (2)	9.6% (8)	
Students with degrees (AA, BA or higher that are preparing for a career change)	40.0% (32)	23.8% (19)	17.5% (14)	10.0% (8)	1.3% (1)	0.0% (0)	2.5% (2)	1.3% (1)	1.3% (1)	2.5% (2)	
											Other (please specify)
											answered question
											skipped question

32. How would you rate the importance of the sources used in developing your GIS curriculum?

	Not Important	Slightly Important	Undecided	Important	Most Important	Response Count
Development mostly by me	4.4% (4)	10.0% (9)	4.4% (4)	41.1% (37)	40.0% (36)	90
Adapted from a colleague's curriculum	9.3% (8)	36.0% (31)	12.8% (11)	37.2% (32)	4.7% (4)	86
Commercially produced curriculum products (hard copy)	23.3% (20)	20.9% (18)	11.6% (10)	37.2% (32)	7.0% (6)	86
Commercially produced online or electronic curriculum products	24.4% (21)	26.7% (23)	10.5% (9)	29.1% (25)	9.3% (8)	86
Free curriculum products on the web	8.1% (7)	26.7% (23)	7.0% (6)	38.4% (33)	19.8% (17)	86
Curriculum products from a National Science Foundation workshop	12.6% (11)	21.8% (19)	16.1% (14)	35.6% (31)	13.8% (12)	87
				Other (please specify)		3
				answered question		90
				skipped question		17

33. Does your institution offer a GIS certificate or degree? (select all that apply)

	Response Percent	Response Count
No 	20.9%	19
A GIS certificate 	64.8%	59
A GIS degree 	41.8%	38
We plan to offer a GIS certificate or degree in the future 	7.7%	7
Other (please specify)		10
	answered question	91
	skipped question	16

34. Which disciplines at your institutions are associated with a GIS curriculum? (Check all that apply.)

	Response Percent	Response Count
None	3.3%	3
Agriculture	13.3%	12
Art	0.0%	0
Archeology	14.4%	13
Biological Science	23.3%	21
Business	12.2%	11
Computer Science and Information Systems	31.1%	28
Criminal Justice	8.9%	8
Drafting	14.4%	13
Economics	1.1%	1
Engineering	24.4%	22
Fire Protection/Science	6.7%	6
Geography	56.7%	51
Geology	26.7%	24
Health (nursing and medical related)	3.3%	3
Information Technology	18.9%	17
Marine Science	10.0%	9
Natural Resource Management	30.0%	27
Physical Science (physics, chemistry, meteorology)	12.2%	11
Sociology	2.2%	2
Surveying	27.8%	25
Real Estate	3.3%	3
	Other:	17

answered question 90

skipped question 17

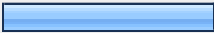
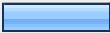



35. What type of learner do you serve in your GIS courses (select all that apply)?

	Response Percent	Response Count
Students who plan on transferring to a 4-year institution	58.0%	51
Students pursuing a 2-year vocational degree or certificate	56.8%	50
Working professionals (students that have a Bachelor's or higher and are seeking additional skills/knowledge for their current job)	77.3%	68
University students pursuing a 4-year degree and/or graduate degrees.	64.8%	57
Students with degrees (A.A., B.A or higher) that are preparing for a career change	59.1%	52
	Other:	4
	<i>answered question</i>	88
	<i>skipped question</i>	19

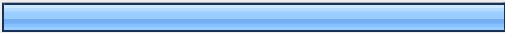

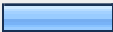
36. Specify the relative number of students in each category.

	0-20%	21-40%	41-60%	61-80%	81-100%	Rating Average	Response Count
Students who plan on transferring to a 4-year institution	71.1% (54)	13.2% (10)	9.2% (7)	5.3% (4)	1.3% (1)	1.53	76
Students pursuing a 2-year vocational degree or certificate	40.0% (30)	21.3% (16)	13.3% (10)	16.0% (12)	9.3% (7)	2.33	75
Working professionals (students that have a Bachelor's or higher and are seeking additional skills/knowledge for their current job)	45.0% (36)	32.5% (26)	8.8% (7)	11.3% (9)	2.5% (2)	1.94	80
University students pursuing a 4-year degree and/or graduate degrees.	52.6% (40)	11.8% (9)	5.3% (4)	14.5% (11)	15.8% (12)	2.29	76
Students with degrees (A.A., B.A or higher) that are preparing for a career change	59.2% (45)	30.3% (23)	5.3% (4)	3.9% (3)	1.3% (1)	1.58	76
						Other:	3
						answered question	83
						skipped question	24

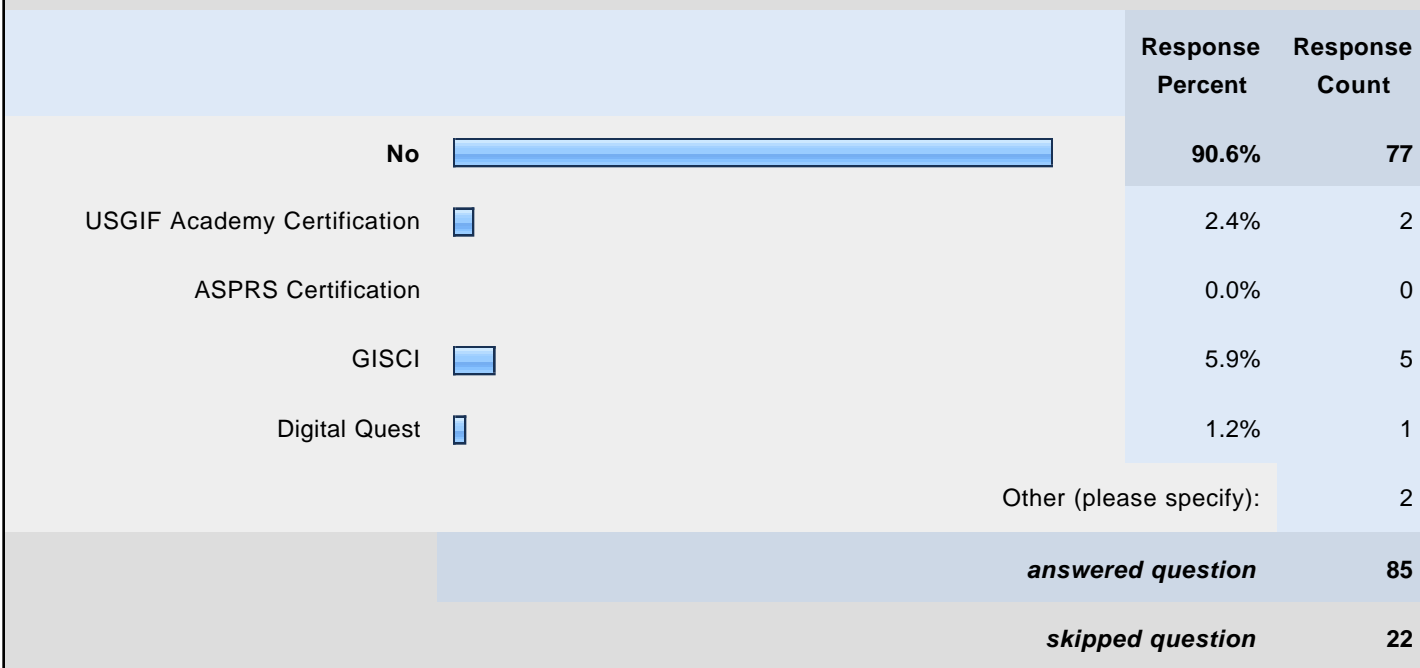
**37. How would you characterize the region that your institution serves?
The majority of the students come from:**

	Response Percent	Response Count
A metropolitan city (population over 500,000) 	31.8%	28
A large city (100,000 -500,000) 	15.9%	14
A medium size city (50,000-100,000) 	17.0%	15
A small city (10,000-50,000) 	17.0%	15
Rural areas (towns with less than 10,000) 	18.2%	16
Other (please specify)		4
answered question		88
skipped question		19

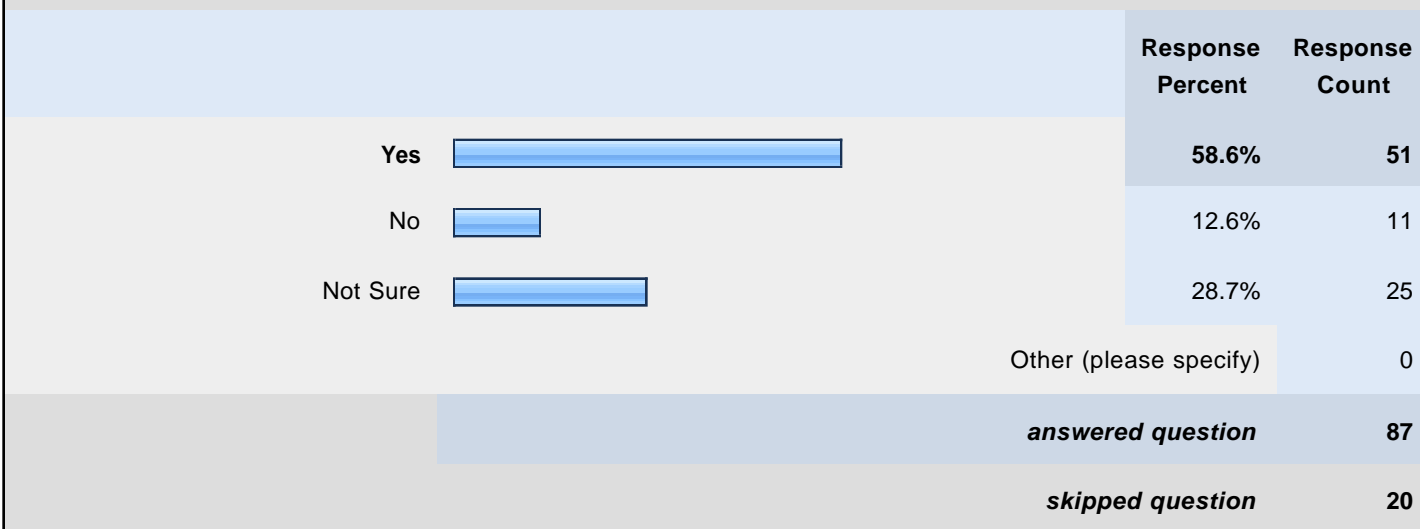
38. Do you think a set of nationally recognized GIS competencies is needed for the national coordination of GIS activities (such as certification, professional development, curriculum development, articulation agreements, internship placement, etc.)?

	Response Percent	Response Count
Yes 	75.9%	66
No 	8.0%	7
Not Sure 	16.1%	14
If yes, what do you believe may serve as a starting point for this discussion? What do you need to know from this?		19
answered question		87
skipped question		20

39. Are you involved in developing/advising any of the GIS or Geospatial Technology certification efforts underway? (select all that apply)



40. Do you believe that institutions of higher education should try to align their curriculum with Professional certification efforts underway, such as the GIS Certification Institute (GISCI)?







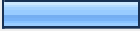
41. How do you acquire professional development? (select all that apply.)

	Response Percent	Response Count
ESRI User Conference	63.6%	56
Regional User Group Meetings	59.1%	52
Commercial, for-profit, short courses	22.7%	20
Community college courses	15.9%	14
University courses	13.6%	12
Self taught	83.0%	73
Educational Workshops and Institutes	75.0%	66
Other (please specify):		4
answered question		88
skipped question		19




42. When you look ahead, where do you think the greatest opportunity in GIS education is within your college and why?

	Response Percent	Response Count
Articulation	10.6%	9
New courses	11.8%	10
Inclusion of Geospatial Course requirements in other programs	56.5%	48
Administration use of Geospatial	5.9%	5
Increased use of web-based GIS	15.3%	13
Other (please specify):		11
answered question		85
skipped question		22

43. What barriers, if any, are there to your participation in GIS professional development activities (select all that apply)?

	Response Percent	Response Count
Lack of funds 	80.7%	67
Lack of time away from campus 	68.7%	57
Distance from available training, such as conferences 	49.4%	41
Lack of relevant activities 	9.6%	8
Lack of knowledge of available activities 	20.5%	17
Other (please specify):		4
answered question		83
skipped question		24

44. Do you or others at your college have, or have you had, any National Science Foundation (NSF), Department of Labor (DOL) or other agency grants that focus on geospatial technology (GST)?

	Response Percent	Response Count
Yes 	38.4%	33
No 	55.8%	48
Not sure 	5.8%	5
If yes, please give the titles, dates, and funding agencies for your projects.		23
answered question		86
skipped question		21

45. What GIS conferences do you attend to learn about new information on GIS education? (select all that apply)

	Response Percent	Response Count
ESRI	87.5%	63
NCGE	5.6%	4
URISA	18.1%	13
GeoInt	5.6%	4
ASPRS	19.4%	14
AAG	36.1%	26
Geospatial World	2.8%	2
GITA – Geospatial Infrastructure Technology Industry	13.9%	10
Other (please specify):		13
answered question		72
skipped question		35

46. What websites do you visit to learn about new information on GIS education? (select all that apply)

	Response Percent	Response Count
ESRI	100.0%	88
GeoTech Center	46.6%	41
Geospatial One Stop	28.4%	25
GeoCommunity	22.7%	20
NASA	29.5%	26
NOAA	30.7%	27
NGA	12.5%	11
USGS	55.7%	49
Directions Magazine Online	22.7%	20
Other (please specify):		2
answered question		88
skipped question		19

47. What other events do you attend to learn about new information on GIS education? (select all that apply:)

	Response Percent	Response Count
Local GIS/GST user group meetings	82.6%	57
Faculty development workshops sponsored by the National Science Foundation	29.0%	20
Professional workshops/seminars offered by the private sector that charge a fee	30.4%	21
Other (please specify):		6
answered question		69
skipped question		38

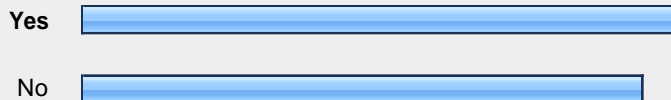
48. Rate the importance of the following GeoTech Center activities:

	Not Important	Slightly Important	Undecided	Important	Most Important	Rating Average	Response Count
Develop new curriculum	5.8% (5)	11.6% (10)	9.3% (8)	52.3% (45)	20.9% (18)	3.71	8
Disseminate existing curriculum	3.5% (3)	9.4% (8)	10.6% (9)	50.6% (43)	25.9% (22)	3.86	8
Promote the standardization of curriculum by means of a nationally recognized set of core competencies	5.8% (5)	16.3% (14)	16.3% (14)	34.9% (30)	26.7% (23)	3.60	8
Distribute information on workforce needs	0.0% (0)	11.5% (10)	11.5% (10)	49.4% (43)	27.6% (24)	3.93	8
Share best practices in pedagogy	1.2% (1)	10.5% (9)	10.5% (9)	55.8% (48)	22.1% (19)	3.87	8
Provide professional development opportunities	0.0% (0)	10.6% (9)	8.2% (7)	51.8% (44)	29.4% (25)	4.00	8
Provide a framework for articulation between 2 and 4-year institutions	4.7% (4)	9.3% (8)	16.3% (14)	39.5% (34)	30.2% (26)	3.81	8
Provide webinars on current topics or software skills	2.4% (2)	10.6% (9)	9.4% (8)	52.9% (45)	24.7% (21)	3.87	8
Other (please specify):							
answered question							8
skipped question							2

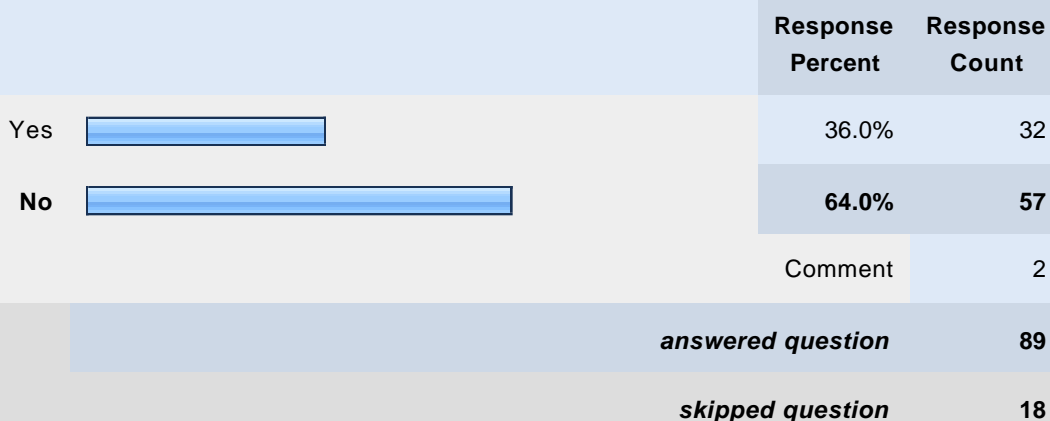
49. When you look ahead, where do you think the greatest opportunity in GIS education is within your college and why?

	Response Count
	68
answered question	68
skipped question	39

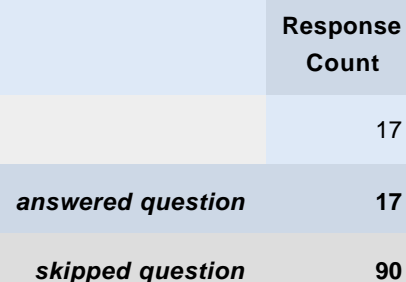
50. Are you aware of the new Geospatial Technology Competency Model (GT
 Dept. of Labor? (<http://www.careeronestop.org/competencymodel/pyramid.as>



51. Are you aware of the new geospatial technology Standard Occupation
 Codes (SOC) published by Dept. of Labor?
 (<http://online.onetcenter.org/find/quick?s=geospatial>)



52. Do you have additional comments you would like to share with us?



53. Please provide your contact information. (for internal information only. GeoTech will not post nor share this information).

	Response Percent	Response Count
*Name:	100.0%	91
*Company:	100.0%	91
Address:	84.6%	77
Address 2:	18.7%	17
City/Town:	87.9%	80
State:	87.9%	80
ZIP/Postal Code:	86.8%	79
Country:	83.5%	76
*Email Address:	100.0%	91
Phone Number:	64.8%	59
<i>answered question</i>		91
<i>skipped question</i>		16

54. URL for your geospatial program information (for adding to the national map).

	Response Count
	72
<i>answered question</i>	72
<i>skipped question</i>	35

55. Description of your geospatial program (for adding to the national map).

	Response Count
	68
<i>answered question</i>	68
<i>skipped question</i>	39

56. Any additional information about your program you would like us to add to the national map.

	Response Count
	16
<i>answered question</i>	16
<i>skipped question</i>	91