



**2005-2006 Curricular Redesign Grant Program:
Enhancing Teaching and Learning with Technology**

Final Report

By

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Submitted to

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Introduction

Six broad-based GIS training courses instructed at the campuses of Superior, Platteville, Stevens Point, and Stout in order to improve the abilities of UW instructors to teach and provide relevant instructional activities using GIS technology. Seventy two faculty/staff from almost 17 different disciplines and from ten institutions of UW System were involved in this training (Table 1)

Table 1 detail Information about the GIS training courses

<i>Location</i>	<i>Type of Training</i>	<i>No of participants</i>	<i>Duration / days</i>	<i>Instructor</i>
Superior	Beginner	11	2	William Bajjali
Superior	Advanced	8	2	William Bajjali
Stevens Point	Beginner	3	1	Keith Rice
Platteville	Beginner	13	2	William Bajjali & Todd Stradford
Stout	Beginner	25	4	William Bajjali
Stout	Advanced	12	2	William Bajjali
				Peter Nordgren *
Total		72		

*: Peter managed the participant recruitment, registration, facilities arrangements, and the evaluation process (see below)

Faculty/staff attending the training were from the following disciplines: geology, geography, engineering, marketing, business, economics, biology, physics, applied psychology, applied science program, food system and technology program, education, educational administration, transportation, nursing, graphic communication program, technology education and Lake Superior Research Institute.

The training courses provided intermediate and advance GIS knowledge and skills to UW instructors so that they can create exercises or laboratories in their own class environments and utilize the GIS technology in their research. It also provided curricula assistance to UW-Stout who are developing new GIS courses and GIS minor as a result of faculty participation in the workshops.

Project Outcome

The training aimed to improve the abilities of UW instructors to teach and provide relevant instructional activities using GIS technology. Two broad-based activities were implemented in order to accomplish the following objectives.

1. Provide general and advanced GIS knowledge and skills to UW instructors (professors, academic staff) so that they can create exercises or laboratories in their own class environments.
2. Create a user group of UW instructors as well as Wisconsin-based GIS professionals that can aid UW personnel in their GIS instructional problems and objectives.
3. Provide curricula assistance to UW-Stout who are developing new courses and GIS minor.

The key component of this project was the six workshops that provided valuable ‘hands-on’ experience to UW instructors. They addressed diverse case studies that have relevance to multiple disciplines, such as, in environmental science, business, biology, earth sciences, sociology, education and others. The workshops were customized to meet the needs and background of the instructors who decide to participate (see attached training course samples). These sessions were designed to engage participants in using GIS technology and to stimulate the development of their own exercises and class materials using spatial information. Each participant was given a workbook that included ‘hands-on’ exercises and flash drive that include all the database of the course material.

The series of workshops was given at UW-Superior (2-day introductory class, 2-day advance class), UW-Platteville (2-day introductory class), at UW-Stevens Point (1-day introductory class for LTDC members), and at UW-Stout (4-day introductory class, 2-day advance class).

Workshop instructors are currently helping some of the participants in developing their assigned GIS exercises that will be used in the classroom.

Project Assessment and Evaluation

All workshop participants will be required to develop at least one GIS exercise or laboratory for their class. Some of these exercises have been evaluated and critiqued by the project Directors. The comments on the workshop were very positive sample of the trainees' evaluations was attached.

Sample 1

Dr. Bajjali:

I would like to thank you and Matt. You worked good as a team and did a wonderful job. It was extremely interesting and well organized. It was a masterful job of keeping a diverse group with differing backgrounds on the same page.

I benefited greatly from the experience. I wish you the best. I'll never forget the class. *"My friends, my friends, listen to me, listen to me, look at me my friends.... Now say OK".*

Thank you very much, your friend,
Garrett

Sample 2

Charles ... I found the workshop very informative. I'm not sure I'm the best candidate for the next session, but might I be put on the "possible, if we need someone on the lower end of the learning curve" and "if we need to fill places in" lists? I will be using GIS as a research tool for the present. Thanks for brining Dr Bajjali on campus.

Fred

Sample 3

It was really great having you here and sharing your knowledge. I learned so much. My problem was that I'm a Mac user and never used a PC before.

Too bad the program does not work on the MAC.

Hope you have a good rest of the summer.

Howard

Sample 4

Thank you Dr Bajjali!

It was an enjoyable workshop. I am feeling I need the advanced training to reach my objectives in using the software. You may see me in August!

Carolyn Barnhart

Sample 5

Hi Bill and Todd,

I would like to thank you for taking your time to lead the GIS Workshop. It was great.

I enjoyed it a lot, learned a lot and generated quite some excitement about the use of GIS in my research and teaching.

Bill, can you please send me the information on UW Oshkosh ESRI representative?

Best wishes, Natasha Vidic

Geology, UW Oshkosh

Final Evaluation See Appendix 2

Conclusions

The training was very useful for many UW System faculties and staff. It generated a lot of interest and benefits for many faculty/staff attended the GIS training courses. The following points can be expressed about the grant:

1. The grant allow to prepare a customized six GIS training courses and instructed at the campuses of Superior, Stevens Point, Platteville, and Stout.
2. Seventy two faculty/staff from 10 UW –System campuses attend the various training courses.
3. The trainees presented 17 different disciplines
4. The GIS training courses generated interest at UW-Stout to establish a GIS program and GIS minor.
5. The primary investigator of the grant is now involved in helping design the GIS minor and train the faculties at UW-Stout.
6. Two training courses were designed to train 25 faculty/staff at UW-Stout. The first GIS training was instructed between 29 May -1 June, 2007. The second advanced customized training will be instructed August 16 – 17, 2007.
7. The GIS training also revealed the following:
 - a. All the UW liberal art colleges have access to the GIS software but none of them is using the technology due to lack of the training. The colleges are paying yearly around \$ 6,000 to renew the software but without using it. It is recommended to allocate funding to train the faculty.
 - b. Some UW-campuses have difficulty in distributing the GIS software efficiently, while some campuses, such as UW –Superior, don't have this problem. The good working relationship between faculty/staff at each campus allows efficient use of GIS for teaching and research.

Budget Summary

Table 2 summarizes the final budget of the project. The detail projects is attached in Appendix 1

Table 2 Budget Summary

Item	Amount
Salary & Benefit	\$ 26,845.63
Travel	\$ 7,673.01
Equipment & Software	\$ 5,842.59
Expenses	\$ 348.57
Total	\$ 40,709.80

Appendix 1 Detail Budget of the Grant 115 621623 6)

Monetary Amt	Description	Acct Descr	Date
3.83	ACCT 5068767992001	Telephone Service-NonSTS Tolls	6/1/2007
3.83	ACCT 5068767992001	Telephone Service-NonSTS Tolls	6/20/2007
20	ADD'L XEROX CHARGES - MAY	Services - Internal	6/14/2007
1.76	BAJJALI, WILLIAM	Fac/Acad - Group Life	1/24/2007
2.67	BAJJALI, WILLIAM	Fac/Acad - Group Life	3/23/2007
1.51	BAJJALI, WILLIAM	Fac/Acad - Income Continuation	1/24/2007
2.94	BAJJALI, WILLIAM	Fac/Acad - Income Continuation	3/23/2007
5.4	BAJJALI, WILLIAM	Fac/Acad - Income Continuation	5/23/2007
5.4	BAJJALI, WILLIAM	Fac/Acad - Income Continuation	5/23/2007
5.4	BAJJALI, WILLIAM	Fac/Acad - Income Continuation	5/23/2007
5.4	BAJJALI, WILLIAM	Fac/Acad - Income Continuation	5/23/2007
381	BAJJALI, WILLIAM	Fac/Acad - Retirement	8/25/2006
27	BAJJALI, WILLIAM	Fac/Acad - Retirement	8/25/2006
127.01	BAJJALI, WILLIAM	Fac/Acad - Retirement	1/24/2007
10.01	BAJJALI, WILLIAM	Fac/Acad - Retirement	1/24/2007
16.66	BAJJALI, WILLIAM	Fac/Acad - Retirement	3/23/2007
211.58	BAJJALI, WILLIAM	Fac/Acad - Retirement	3/23/2007
40	BAJJALI, WILLIAM	Fac/Acad - Retirement	5/23/2007
508	BAJJALI, WILLIAM	Fac/Acad - Retirement	5/23/2007
25	BAJJALI, WILLIAM	Fac/Acad - Retirement	6/22/2007
317.5	BAJJALI, WILLIAM	Fac/Acad - Retirement	6/22/2007
195.82	BAJJALI, WILLIAM	Fac/Acad- Group Health	1/24/2007
297.08	BAJJALI, WILLIAM	Fac/Acad- Group Health	3/23/2007
43.5	BAJJALI, WILLIAM	Fac/Acad- Medicare	8/25/2006
14.09	BAJJALI, WILLIAM	Fac/Acad- Medicare	1/24/2007
23.55	BAJJALI, WILLIAM	Fac/Acad- Medicare	3/23/2007
53.75	BAJJALI, WILLIAM	Fac/Acad- Medicare	5/23/2007
36.25	BAJJALI, WILLIAM	Fac/Acad- Medicare	6/22/2007
186	BAJJALI, WILLIAM	Fac/Acad- Social Security	8/25/2006
60.28	BAJJALI, WILLIAM	Fac/Acad- Social Security	1/24/2007
100.68	BAJJALI, WILLIAM	Fac/Acad- Social Security	3/23/2007
229.84	BAJJALI, WILLIAM	Fac/Acad- Social Security	5/23/2007
155	BAJJALI, WILLIAM	Fac/Acad- Social Security	6/22/2007
1,000.00	BAJJALI, WILLIAM	Faculty - Lump Sum	1/24/2007
1,666.00	BAJJALI, WILLIAM	Faculty - Lump Sum	3/23/2007
4,000.00	BAJJALI, WILLIAM	Faculty - Lump Sum	5/23/2007
2,500.00	BAJJALI, WILLIAM	Faculty - Lump Sum	6/22/2007
3,000.00	BAJJALI, WILLIAM	Faculty - Summer	8/25/2006
49.18	CATERING	Food & Food Service Contracts	8/28/2006
649.95	CMS FLASH DRIVES	Services - Internal	10/31/2006
649.95	CMS FLASH DRIVES	Services - Internal	11/16/2006
-649.95	CMS FLASH DRIVES	Services - Internal	12/30/2006

84.6	F70672 CATERING	Conference/Workshop Expenses	2/23/2007
84.6	F706720 CATERING	Conference/Workshop Expenses	2/14/2007
3,200.00	F70819 LAB KIT & UPGRADE	Software-Purchases	3/23/2007
1,249.90	F71099 ETREX GPS	Equip & Furnit not Capitalized	6/20/2007
370	GOODMAN, MATTHEW J	Student - Hourly	6/7/2007
5.37	GOODMAN, MATTHEW J	Student - Medicare	6/7/2007
22.94	GOODMAN, MATTHEW J	Student - Social Security	6/7/2007
1,000.00	NORDGREN, PETER D	Academic Staff - Lump Sum	2/21/2007
500	NORDGREN, PETER D	Academic Staff - Lump Sum	5/23/2007
500	NORDGREN, PETER D	Academic Staff - Lump Sum	6/22/2007
2.02	NORDGREN, PETER D	Fac/Acad - Income Continuation	2/21/2007
1.07	NORDGREN, PETER D	Fac/Acad - Income Continuation	5/23/2007
1.07	NORDGREN, PETER D	Fac/Acad - Income Continuation	6/22/2007
10	NORDGREN, PETER D	Fac/Acad - Retirement	2/21/2007
127	NORDGREN, PETER D	Fac/Acad - Retirement	2/21/2007
63.5	NORDGREN, PETER D	Fac/Acad - Retirement	5/23/2007
5	NORDGREN, PETER D	Fac/Acad - Retirement	5/23/2007
63.5	NORDGREN, PETER D	Fac/Acad - Retirement	6/22/2007
5	NORDGREN, PETER D	Fac/Acad - Retirement	6/22/2007
14.5	NORDGREN, PETER D	Fac/Acad- Medicare	2/21/2007
7.25	NORDGREN, PETER D	Fac/Acad- Medicare	5/23/2007
7.25	NORDGREN, PETER D	Fac/Acad- Medicare	6/22/2007
62	NORDGREN, PETER D	Fac/Acad- Social Security	2/21/2007
31	NORDGREN, PETER D	Fac/Acad- Social Security	5/23/2007
31	NORDGREN, PETER D	Fac/Acad- Social Security	6/22/2007
18.04	OFFICE DEPOT	Supplies	9/21/2006
17.07	OFFICE DEPOT	Supplies	2/16/2007
65.66	OFFICE DEPOT	Supplies	5/30/2007
21.04	REIMBURSE SANDY ORR	Supplies	6/22/2007
3,000.00	RICE, KEITH W	Academic Staff - Lump Sum	9/26/2006
1,111.00	RICE, KEITH W	Academic Staff - Lump Sum	3/5/2007
408	RICE, KEITH W	Fac/Acad - Retirement	9/26/2006
141.1	RICE, KEITH W	Fac/Acad - Retirement	3/5/2007
11.11	RICE, KEITH W	Fac/Acad - Retirement	3/5/2007
43.5	RICE, KEITH W	Fac/Acad- Medicare	9/26/2006
16.11	RICE, KEITH W	Fac/Acad- Medicare	3/5/2007
186	RICE, KEITH W	Fac/Acad- Social Security	9/26/2006
68.89	RICE, KEITH W	Fac/Acad- Social Security	3/5/2007
282.82	STRADFORD, TODD	Academic Staff - Lump Sum	11/3/2006
282.82	STRADFORD, TODD	Academic Staff - Lump Sum	11/3/2006
282.82	STRADFORD, TODD	Academic Staff - Lump Sum	11/3/2006
2,262.54	STRADFORD, TODD	Academic Staff - Lump Sum	2/5/2007
35.91	STRADFORD, TODD	Fac/Acad - Retirement	11/3/2006
2.55	STRADFORD, TODD	Fac/Acad - Retirement	11/3/2006
35.92	STRADFORD, TODD	Fac/Acad - Retirement	11/3/2006

2.54	STRADFORD, TODD	Fac/Acad - Retirement	11/3/2006
2.55	STRADFORD, TODD	Fac/Acad - Retirement	11/3/2006
35.92	STRADFORD, TODD	Fac/Acad - Retirement	11/3/2006
287.35	STRADFORD, TODD	Fac/Acad - Retirement	2/5/2007
22.63	STRADFORD, TODD	Fac/Acad - Retirement	2/5/2007
4.1	STRADFORD, TODD	Fac/Acad- Medicare	11/3/2006
4.1	STRADFORD, TODD	Fac/Acad- Medicare	11/3/2006
4.11	STRADFORD, TODD	Fac/Acad- Medicare	11/3/2006
32.8	STRADFORD, TODD	Fac/Acad- Medicare	2/5/2007
17.54	STRADFORD, TODD	Fac/Acad- Social Security	11/3/2006
17.53	STRADFORD, TODD	Fac/Acad- Social Security	11/3/2006
17.54	STRADFORD, TODD	Fac/Acad- Social Security	11/3/2006
140.28	STRADFORD, TODD	Fac/Acad- Social Security	2/5/2007
810	TA 52807 6107 WI BAJJALI	Travel-NonEmpl,Student,Job App	6/8/2007
125.88	TA 52807 6107 WI BAJJALI	Travel-NonEmpl,Student,Job App	6/8/2007
231.15	TER 6707 WI	Travel-Employe-In State Bus	6/12/2007
17	TER 6707 WI	Travel-Employe-In State Bus	6/14/2007
576.58	TER 81306 MILANESI WI	Travel-Employe-In State-Conf	8/18/2006
506.65	TER BAJJALI 11607 WI	Travel-Employe-In State-Conf	1/29/2007
353.55	TER BAJJALI 72806 WI	Travel-Employe-In State Bus	8/8/2006
36	TER BAJJALI 8/14/06 SUPERIOR	Travel Empl Reportable Meals	9/7/2006
315.9	TER COLLIER 11607 WI	Travel-NonEmpl,Student,Job App	1/29/2007
36	TER DAVIDSON 81406 WI	Travel Empl Reportable Meals	8/18/2006
106.4	TER EMERSON 11707 WI	Travel-NonEmpl,Student,Job App	1/29/2007
486.95	TER HENKE 81306 WI	Travel-Employe-In State-Conf	8/18/2006
249.14	TER JOHNSON 11607 WI	Travel-NonEmpl,Student,Job App	1/29/2007
338.42	TER LI 11607 WI	Travel-NonEmpl,Student,Job App	1/29/2007
263.5	TER MAXWELL 11706 WI	Travel-NonEmpl,Student,Job App	1/29/2007
237.27	TER PRICE 11607 WI	Travel-NonEmpl,Student,Job App	1/29/2007
384.58	TER ROMPALA 81306 WI	Travel-Employe-In State-Conf	8/18/2006
257.05	TER ROZMARYNOWSKI 11607 WI	Travel-NonEmpl,Student,Job App	1/29/2007
690	TER SCOVOTTI 81306 WI	Travel-Employe-In State-Conf	8/18/2006
673.39	TER TARANTINO 81306 WI	Travel-Employe-In State-Conf	8/18/2006
182.2	TER VIDIC 11607 WI	Travel-NonEmpl,Student,Job App	1/29/2007
350.95	TER WALTER 81506 WI	Travel-NonEmpl,Student,Job App	10/27/2006
444.45	TER WEST 81306 WI	Travel-Employe-In State-Conf	8/18/2006
641.97	WWW.NEWEGG.COM 0608	Supplies	6/21/2007
28	XEROX AUGUST	Services - Internal	8/31/2006
37.5	XEROX CHARGES - MAY	Services - Internal	6/14/2007
15.99	XEROX JANUARY 2007	Services - Internal	2/16/2007

40,709.80

Appendix 2 Final Evaluation

UW-Superior Beginning GIS Workshop Evaluation

Please rate the following aspects of the workshop on a scale with 1=lowest and 5=highest

1. Rate the content of the workshop overall



2. Rate the organization of the content.



3. Rate the design of the learning activities.



4. Rate the usefulness of materials provided in the workshop.



5. Rate the trainer overall.



6. Rate the trainer's ability to communicate the material.



7. Rate the trainer's knowledge of the material.



8. Rate the trainer's ability to communicate complex topics.



9. Rate the trainer's ability to speak clearly and be heard.

Average rank

	1	2	3	4	5	
x						(4.6)
10. Rate the trainer's rapport and connection with students.						
	Average rank					
	1	2	3	4	5	
x						(4.6)
11. The workshop met my expectations.						
	Average rank					
	1	2	3	4	5	
x						(4.4)
12. I had a positive learning experience.						
	Average rank					
	1	2	3	4	5	
x						(4.8)
13. The pace of the workshop was						
Too slow						(0)
A little slow						(0)
Just right						(2)
A little fast						(3)
Too fast						(0)
TOTAL						6

14. Tell us how you plan to use GIS technology in your teaching.

Response

1 At this point, just as an example of how this technology can be used in business.

1 I am not able to use GIS this semester but plan to use it in the future. I will use it with students with their research projects. I currently have students that are working with me and Dr. Bajjali and they are using GIS.

1 I do use it already, but i hope to be able to expand and improve my use in instruction.

1 I learned that GIS is highly application orientated and deal primarily with geographic data. Even though I do offer an advance class or two, those class do not touch on such applications.

15. Did your plans to use GIS in teaching change as a result of the workshop?

Response

1 I was planning to use GIS before the workshop, however having taken the workshop I am enabled to move forward at a faster rate.

1 I'm affraid that it will have no direct impact.

1 Not really, but I feel much more confident in my ability to use the technology effectively.

1 Yes.

16. Other comments for the instructor or workshop management.

Response

1 I admire the instructor's patience with us. He was great at putting himself in the student's position and interpreting their dilemmas.

1 I hope there will be more workshops in the future.

1 my comments and ratings on the advanced workshop survey are relevant to the beginner's seminar as well.

1 Some of the students were not prepared to use basic computer skills, which is a hard thing to control, but it did slow things down a bit.

UW-Superior Advanced GIS Workshop Evaluation

Please rate the following aspects of the workshop on a scale with 1=lowest and 5=highest

1. Rate the content of the workshop overall



2. Rate the organization of the content.



3. Rate the design of the learning activities.



4. Rate the usefulness of materials provided in the workshop.



5. Rate the trainer overall.



6. Rate the trainer's ability to communicate the material.



7. Rate the trainer's knowledge of the material.



8. Rate the trainer's ability to communicate complex topics.



9. Rate the trainer's ability to speak clearly and be heard.

Average rank

	1	2	3	4	5	
x						(4.5)
10. Rate the trainer's rapport and connection with students.						
	Average rank					
	1	2	3	4	5	
x						(5.0)
11. The workshop met my expectations.						
	Average rank					
	1	2	3	4	5	
x						(5.0)
12. I had a positive learning experience.						
	Average rank					
	1	2	3	4	5	
x						(5.0)
13. The pace of the workshop was						
Too slow						(0)
A little slow						(1)
Just right						(2)
A little fast						(1)
Too fast						(0)
TOTAL						4

14. Tell us how you plan to use GIS technology in your teaching.

Response

1 I am currently modifying the exercises of the basic course and creating Camtasia lessons. Trying to get away from the straight geography topics and use more relevant business topics. This spring I'm going to make the Camtasia lessons with segmentation exercises available to my undergrad Marketing Management and graduate Marketing Strategy sections. GIS is a powerful tool for market segmentation and target market identification/selection.

1 I am the Database Administrator/GIS Analyst for LSRI at UWS, rather than a Professor, so I will not be using it for teaching (other than occasionally training my co-workers on a few GIS tasks, and helping students occasionally). However, I have been and will continue to use GIS extensively in my research work for LSRI.

1 I have already used GIS in my teaching of a couple classes. I am trying to expand the use in those classes and expand into other topics, as well.

1 unfortunately, i'm on a medical leave of absence and, therefore have been unable to use the gis yet.

15. Did your plans to use GIS in teaching change as a result of the workshop?

Response

1 I definitely learned some new techniques that I will apply to our work at LSRI.

1 I thought about how well Camtasia would work to communicate the 'how to's' of GIS as a

result of the workshop. My application didn't change. How I would teach students how to use it did change.

1 Not really, but I am far more confident in my ability to design effective GIS-related exercises based upon the experience and information gained in the workshop. The workshop met my needs perfectly.

1 yes. when i return to teaching i will use it in public and community health to assist students in understanding where resources are needed.

16. Other comments for the instructor or workshop management.

Response

1 1. I really enjoyed working with William. Great enthusiasm. I love the accent. 2. The class moves as fast as its slowest member. Too bad we had so many people that were technologically challenged. (How's that for political correctness!) 3. I wish there had been more on availability of external data. I'm struggling with the business-related data I want to find.

1 A great workshop that is very useful for any GIS professional or academic. If possible however, and if future workshops are planned, I would recommend opening it up a bit to more than academic types, but also to professional and research types. These individuals would benefit greatly from this as well, and I think it would create more interest in the workshops, if that is desired. Also, I think that I would recommend that individuals taking this workshop have at least a little prior GIS knowledge and/or experience. Maybe not so much for the Begining Workshop, but probably if they plan to take the Advanced Workshop. Though it was a great workshop, there were a few people who slowed things down quite a bit at the expense of others in the Advanced Workshop. Most people kept up fine however, and overall it was a great, highly recommeded workshop experience.

1 i should have sent a thank you note. i am so grateful i learned so much. additionally, our instructor was helpful and offered his help in the future. for me that is one of the hallmarks of an excellent instructor. thanks.

1 My only criticism is that the level of general computer skills varied widely among participants. Ideally, there could have been some pre-instruction for people with minimal experience to control errors and confusion caused by repeatedly clicking a command when the program did not respond immediately. I understand that it is often difficult to control one's audience and it probably wouldn't be practical to schedule a third level of instruction.

Beginning GIS Workshop Evaluation

UW-Platteville, January 17-18, 2007

Please rate the following aspects of the workshop on a scale with 1=lowest and 5=highest

1. Rate the content of the workshop overall



2. Rate the organization of the content.



3. Rate the design of the learning activities.



4. Rate the usefulness of materials provided in the workshop.



5. Rate the trainer overall.



6. Rate the trainer's ability to communicate the material.



7. Rate the trainer's knowledge of the material.



8. Rate the trainer's ability to communicate complex topics.



9. Rate the trainer's ability to speak clearly and be heard.



10. Rate the trainer's rapport and connection with students.



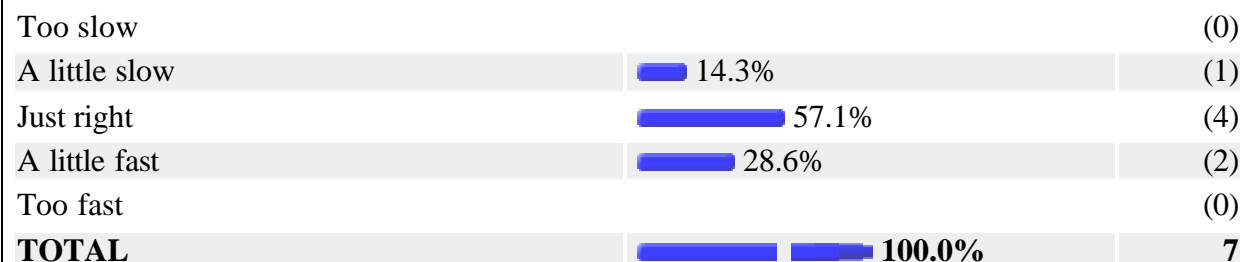
11. The workshop met my expectations.



12. I had a positive learning experience.



13. The pace of the workshop was



14. Tell us how you plan to use GIS technology in your teaching.

Response

1 As a librarian I intend to offer to provide GIS support for my faculty in their teaching and research. I believe this is a service that more librarians should learn and offer for their campuses. We are trained to use information in many ways, and GIS is an important way to use (spatial) information. I can also use GIS data as an example of the 'deep web' when teaching information literacy skills to Eng 101 and 102 courses.

1 Creating weather images, etc., from data.

1 For research on populations.

1 I hope to help Dr. Bajjali perform a workshop at UWStout. I'm also writing a masters thesis on GIS educational programming.

1 I may be able to use it in my field method class that I am teaching this Spring. However, my university still didn't install the software to my computer and I have forgotten almost everything without practice for more than two weeks.

1 I will use it in my own research and will try to incorporate it into some of the geography / geology labs I teach.

1 I would like to design GIS exercises for my soil and geology courses so the students get at

least an idea what GIS is and how it works. I also plan to use it for student projects and research.

15. Did your plans to use GIS in teaching change as a result of the workshop?

Response

1 I got excited about using GIS.

1 I have master's level Thesis students. This might be helpful for for their projects.

1 No, my plans have only been moved another step toward fruition.

1 No.

1 See above

1 Some what, I feel a little more confident that I actually could incorporate GIS. The workshop gave me many ideas of how I could actually use the system.

1 Yes.

16. Other comments for the instructor or workshop management.

Response

1 I appreciate the opportunity to learn and practice GIS methods. I would love to see an advanced course in the future, as I believe this technology has a big future in education, and in the UW System.

1 I'd prefer the instructor control the computer, thus the input and output on the screen. I was struggling to catch what the instructor's lecture with what the other instructor doing with the data.

1 Much better than I anticipated.

1 Overall, it was a positive experience. I was a little frustrated at times though- this was supposed to be a beginning course in GIS so I had no prior experience with using it. Therefore, I didn't know any of the vocabulary that is needed to operate the software. What I'm trying to say is for example if the instructions said to "integrate the following files" I didn't know what "integrate" meant as far as commands in the ArcGIS program. It would have been helpful to have a page of "vocabular words" or "commands" and what each means so I could review that "integrate" means to select the add command (button with + sign) and add the following files, for example. I hope you can understand what I'm not saying very clearly!

1 Thank you so much for organizing the workshop! A workshop building on the beginning one would be most appreciated.

1 This was a GREAT workshop. Dr. Bajjali is a brilliant modeler and geo/hydrologist. The exercises were very real world. Dr. Todd was a wonderful compliment to the operation and I appreciated his theory lectures. Together, you both shared deep knowledge and belief about GIS and its possibilities. Thanks

1 Your enthusiasm for the program was contagious.

UW-Stout Beginning GIS Workshop 1- Evaluation

Please rate the following aspects of the workshop on a scale with 1=lowest and 5=highest

1. Rate the content of the workshop overall

x
Average rank
1 2 3 4 5
 (4.8)

2. Rate the organization of the content.

x
Average rank
1 2 3 4 5
 (4.7)

3. Rate the design of the learning activities.

x
Average rank
1 2 3 4 5
 (4.3)


4. Rate the usefulness of materials provided in the workshop.

x
Average rank
1 2 3 4 5
 (4.3)

5. Rate the trainer overall.

x
Average rank
1 2 3 4 5
 (4.5)

6. Rate the trainer's ability to communicate the material.

x
Average rank
1 2 3 4 5
 (4.5)

7. Rate the trainer's knowledge of the material.

x
Average rank
1 2 3 4 5
 (5.0)

8. Rate the trainer's ability to communicate complex topics.

x
Average rank
1 2 3 4 5
 (4.3)

9. Rate the trainer's ability to speak clearly and be heard.

Average rank

	1	2	3	4	5	
x						(4.2)
10. Rate the trainer's rapport and connection with students.						
	Average rank					
	1	2	3	4	5	
x						(4.5)
11. The workshop met my expectations.						
	Average rank					
	1	2	3	4	5	
x						(4.8)
12. I had a positive learning experience.						
	Average rank					
	1	2	3	4	5	
x						(4.7)
13. The pace of the workshop was						
Too slow						(0)
A little slow						(0)
Just right						(3)
A little fast						(2)
Too fast						(1)
TOTAL						6

14. Tell us how you plan to use GIS technology in your teaching.

Response

1 development of a minor associated with applied science

1 I will have my BIO 111 students enter their water quality data and conduct simple analyses.

1 Not sure yet but the knowledge gained will be very helpful.

1 Not sure, but definitely plan to use it in my research

1 Plan to use with institutional research.

1 Research advising

15. Did your plans to use GIS in teaching change as a result of the workshop?

Response

1 I'm more excited to learn and do more.

1 just identified the greater need for having gis on campus

3 Yes

16. Other comments for the instructor or workshop management.

Response

1 I was never bored. You set a nice pace. I'm inspired to go on and learn more so that I'll be ready for the advanced course in August.

1 thanks for your efforts to come campus and provide this training

1 The exercises were great; very well thought out and organized and taught. However, it would be helpful to have a little cheat sheet with steps for doing the common tasks. I had troubles, going back through the exercises to find how to do that one thing that we had done before.

1 The pace was very fast but it is a lot of material to cover in two days. Having a student help out was very valuable! Matt was great! The examples could be less complicated material so you aren't learning about other areas along with new software.

Instructor Dr. Keith Rice

LTDC GIS Workshop - Evaluation

Please rate the following aspects of the workshop on a scale with 1=lowest and 5=highest

1. Rate the content of the workshop overall

x
Average rank
1 2 3 4 5
 (5.0)

2. Rate the organization of the content.

x
Average rank
1 2 3 4 5
 (4.5)

3. Rate the design of the learning activities.

x
Average rank
1 2 3 4 5
 (4.5)

4. Rate the usefulness of materials provided in the workshop.

x
Average rank
1 2 3 4 5
 (4.5)

5. Rate the trainer overall.

x
Average rank
1 2 3 4 5
 (4.5)

6. Rate the trainer's ability to communicate the material.

x
Average rank
1 2 3 4 5
 (5.0)

7. Rate the trainer's knowledge of the material.





x
Average rank
1 2 3 4 5
 (5.0)

8. Rate the trainer's ability to communicate complex topics.

x
Average rank
1 2 3 4 5
 (5.0)

9. Rate the trainer's ability to speak clearly and be heard.

Average rank

	1	2	3	4	5	
x						(4.5)
10. Rate the trainer's rapport and connection with students.						
	Average rank					
	1	2	3	4	5	
x						(4.5)
11. The workshop met my expectations.						
	Average rank					
	1	2	3	4	5	
x						(4.5)
12. I had a positive learning experience.						
	Average rank					
	1	2	3	4	5	
x						(5.0)
13. The pace of the workshop was						
Too slow						(0)
A little slow						(0)
Just right						100.0% (2)
A little fast						(0)
Too fast						(0)
TOTAL						2
14. Tell us how you plan to use what you learned in the workshop.						
# Response						
1 It was a great overview of how GIS impacts so many disciplines - there is a lot of potential for student assignments and even service learning projects						
1 We already have some very knowledgeable faculty working with GIS technology. My role is more of an encourager rather than the source of all knowledge. It's a very good role to play.						
15. Did your plans to use GIS in teaching change as a result of the workshop?						
# Response						
16. Other comments for the instructor or workshop organizers.						
# Response						
1 He did a great job of introducing a complex topic in a short period of time. Thanks for the opportunity to participate!						
1 The direction of the workshop was perfect! Thanks!						