

B.S. in COMPUTER SCIENCE MAJOR

MAJOR FIELD ASSESSMENT

MISSION STATEMENT: The mission of the College of Business and Information System is to educate and prepare students to be life-long learners and professionals in business, information systems, computer science, business and computer education, and health information management. Inherent in the educational process is challenging individuals to develop information management skills, to think logically, and to make sound decisions. Information technology is integrated throughout the curriculum. This emphasis on information technology and faculty expertise provide the foundation for Dakota State University's Center of Excellence.

GOAL STATEMENT: Graduates of the program will be knowledgeable in the practices and technologies in their field and be prepared for entry-level positions in the field. The best qualified of the students will be prepared for graduate study in the field. Students entering the job market after graduation will be well prepared for their first employment.

Computer Science graduates will:

1. Be prepared for entry-level positions in schools and business.

- a. Students will be well-prepared academically for their first position in the career field.
 - 1) Graduate Survey: 70% of graduates will indicate they are satisfied with their knowledge of their academic area as it relates to their job.
 - 2) Employer Survey: 80% of employers will indicate that DSU graduates as needing the usual or less than usual amount of additional training after graduation.
 - 3) Employer Survey: 80% of employers will rate their overall satisfaction with the DSU graduates as "very good" or "good".
 - 4) Major field Assessment Test: 50% of graduates' scores will be at or near the 50th percentile for four-year public college seniors.
- b. Some graduates will be prepared for advanced graduate work in their field.
 - 1) Major field Assessment Test: 50% of graduates' scores will be at or near the 50th percentile for four-year public college seniors.
 - 2) Advanced Degree Programs: More than 50% of our graduates attempting advanced degree programs will successfully complete their programs.

2. Be knowledgeable and competent users of computer technology.

- a. Graduates will be competent and knowledgeable users of applications software programs.
 - 1) Placement: 80% of graduating students will find employment in field or matriculate in an advanced degree program within one year of graduation. This will be measured using DSU placement office information.

- 2) Major Field Assessment Test: 50% of graduates' scores will be at or near the 50th percentile for four-year public college seniors.
 - 3) Employer Survey: 70% of the employers will rate the graduates as good or very good in their overall knowledge of computers.
- b. Graduates will be knowledgeable in different computing environments and of software available in those environments.
- 1) Computer Knowledge: Students will be expected to have completed with grades of C or better in courses using the major computing environments, e.g., MS Windows and UNIX. (CIS 277, CSC 250,303,345)
 - 2) Employer Survey: 85% of employers will rate graduates' overall computer knowledge as good or very good.
 - 3) Graduate Survey: 70% of DSU graduates will indicate they are satisfied or very satisfied with their overall computer knowledge.

Goals	Student Outcomes	Assessment Criteria	Expected Standard of Performance	Results 02-03 03-04 04-05	Analysis Standard Achieved	Action Plan
1. Computer Science graduates will be prepared for entry-level positions in schools and businesses.	a. Be prepared academically for their first position in the career field	<ol style="list-style-type: none"> 1. Graduate survey 2. Employer survey Question 15 3. Employer survey Question 13 4. Major field test 	<ol style="list-style-type: none"> 1. 70% satisfied with their knowledge of their academic area as it relates to their job 2. 80% will rate graduates as needing the usual or less than usual amount of additional training. (2000: Changed to training in computer skills.) 3. 80% will rate their overall satisfaction with DSU grads as very good or good 4. 50% will score at or near the 50th percentile for 4-year public college seniors 	03: 100% 04: 67% (n=6) (3-5)=100% 03: 100% 04: 100% 03: 100% 04: 100% FA02: N=6, 50% SP03: N=35, 65% FA03: N=6, 67% SP04: N=24, 38% FA04: N=5, 80%	Met Met Met Met	
	b. Some graduates will be prepared for advanced graduate work in their field.	<ol style="list-style-type: none"> 1. Major field test 2. Advanced degree programs 	<ol style="list-style-type: none"> 1. 50% will score at or near the 50th percentile for 4-year public college seniors 2. 50% of graduates attempting advanced degree programs will successfully complete their programs. 	FA02: N=6, 50% SP03: N=35, 65% FA03: N=6, 67% SP04: N=24, 38% FA04: N=5, 80% Not Applicable	Met	
2. Computer science graduates will be knowledgeable and competent users of computer technology	a. Graduates will be competent and knowledgeable users of application software programs.	<ol style="list-style-type: none"> 1. Placement statistics 2. Major field assessment 3. Employer Survey Question 1 	<ol style="list-style-type: none"> 1. 80% will find employment in field or matriculate in an advanced degree program. 2. 50% will score at or near the 50th percentile for 4-year public college seniors 3. 70% will rate graduates as good or very good in their use of computer software. 	02: 100% 03: 86% 04: 96% FA02: N=6, 50% SP03: N=35, 65% FA03: N=6, 67% SP04: N=24, 38% FA04: N=5, 80% 03: 100% 04: 100%	Met Met Met	
	b. Graduates will be knowledgeable in different computer environments and of software available in those environments	1. Course grades	1. 100% will receive a C or better in courses using the major computing environments, e.g., MS Windows and UNIX.			

		2. Employer Survey Question 3	2. 85% of employers will rate graduates' overall computer knowledge as good or very good.	03: 100% 04: 100%	Met	
		3. Graduate Survey	3. 70% of DSU graduates will indicate they are satisfied or very satisfied with their overall computer knowledge.	03: 67% (n=3) (3-5)=100% 04: 83%	Met	

2003 Employer survey N=3
2004 Employer survey N=3

2003 Graduate survey N=3
2004 Graduate survey N=3

2003-04 MFAT N=30
2004-05 MFAT N= FA04=13

