

Degree Program Student Learning Outcomes 2005-2006 Bennett College for Women

Division Name		Academic Year		
Natural & Behavioral Sciences and Mathematics		2005-2006		
Degree Program Name		Degree Level		
Computer Science		B.S.		
Mission of Degree Program				
<p>The mission of the Bachelor of Science Program in Computer Science at Bennett College for Women is to instill the student with essential facts, concepts, principles, theories, and applications relating to computer science. Graduates of the program understand not only the theoretical foundations of the discipline but also how that theory influences and is applied in practice. The program provides a foundation that allows the student to study at graduate level and/or to work in industry, maintaining their skills in the rapidly changing field.</p>				
Student Learning Outcomes	Assessment Methods	Expected Results	Actual Results 2005-2006	Use of Results 2006-2007
<p>Graduates with the B.S. in Computer Science should demonstrate knowledge and understanding of essential facts, concepts, principles, and theories relating to computer science.</p>	<p>Grades of comprehensive Final Exam in each of the major core courses</p> <p>Score of the major field achievement test in computer science which all computer science majors are required to take in their senior year.</p>	<p>100 % of majors will take one or more major core courses and 80% of them will complete the courses with C or higher.</p> <p>100% of seniors will take this exam and we expect performance to be lower than the national average; however, with a revision of the curriculum which is in progress, and a full implementation of the new curriculum will enhance the score to the national average by 2008.</p>	<p>Of the 10 students whose records were examined, 7 passed core course successfully, or 70%</p> <p>Results were requested for major field test on the one graduating senior, but were not available from college administration at this time.</p>	<p>Current faculty will be reminded and new faculty will be notified of this self defined expectation.</p> <p>The historical achievement of our majors has not been impressive. The addition of new faculty, and eventually new offerings in the department should strength our results.</p>

<p>Graduates should be able to use the knowledge and understanding obtained from the major courses and other cognate courses in problem analysis, solution design and implementation of the solution.</p>	<p>Grade of the capstone course CS442 Senior project.</p> <p>Evaluation from supervisor/mentor of internship program(s) student participated</p> <p>Grades of major projects in upper level courses</p>	<p>100% of seniors take this capstone course and 90% of them will complete with C or higher for the final product that is graded by a rubric developed by computer science area faculty.</p> <p>80% of majors will participate an internship program and 100% of them will receive an evaluation that is equivalent B or higher (good ~ excellent)</p> <p>100% of juniors and seniors will take upper level courses that require major project and 80% of them will get B or higher</p>	<p>Two seniors took the capstone course CS442 this semester. Both made outstanding presentations, were graded on a rubric and were given outstanding marks by faculty from several areas who participated.</p> <p>The graduating student did not have a formal internship, but did have positive work experience which she related to department members.</p> <p>75% of junior and senior students received B or higher</p>	<p>Continuation and strengthening of the capstone experience, with new faculty providing greater diversity in the type and scope of the topics chosen. This remains a strength of the program.</p> <p>Greater emphasis will be placed on providing internship experience for all upper level students. A more formal evaluation will be developed.</p> <p>Current faculty will be reminded and new faculty will be notified of this self defined expectation</p>
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<p>Graduates must become proficient in at least one higher-level language.</p>	<p>Grades of programming projects given in CS206 Computer Programming II</p> <p>Grades of programming projects given in CS303 Data structures classes.</p>	<p>100% of sophomores will take CS206 and 70% of them will complete their programming projects with C or higher</p> <p>100% of juniors will take CS303 and 90% of them will complete their programming projects with C or higher</p> <p>Each programming projects given in CS206 and CS303 will be graded by a specially designed rubric for the project.</p>	<p>One student completed CS206 this year, and this student did not successfully pass the course.</p> <p>One student took CS303 this semester, and she successfully completed this requirement.</p> <p>Not available at this time.</p>	<p>Evaluation of CS206 will take place in consultation with the current and incoming faculty.</p> <p>The course will be evaluated to assure its current and relevant content, while continuing to retain its successful outcomes.</p>
<p>Graduates should be able to make concise presentations about technical problems and their solutions.</p>	<p>Grades of term papers and presentations given in each major course.</p> <p>Grade of Project proposal and presentation for the capstone course CS442</p>	<p>100% of majors will give at least one presentation in their major courses and 90% of them will receive B or higher</p> <p>100% of graduating seniors will submit project proposal and 90% will receive B or higher</p>	<p>Both graduating seniors successfully completed a joint project and made very highly regarded presentation of it.</p>	<p>This will remain a strong part of the program in Computer Science.</p>

<p>Graduates should be able to recognize and be guided by the social, professional, and ethical issues involved in the use of computer technology.</p>	<p>Grades of term paper(s) and presentation (s) on the topics given in CS101 Introduction to computer science and/or Grade of course that covers computer ethics and professional issues at consortium.</p>	<p>100% of majors will take this course and 95% will receive overall grade of C or higher. Student's performance will be graded by a set of rubrics, each assesses different evaluation category that include knowledge, presentation, reporting, and critical thinking.</p>	<p>Most sophomore students took this course successfully in either the first or second semester.</p>	<p>While current patterns show the course as placed in the first semester, students have generally not been placed thus. The pattern will be reviewed and adjusted to realistically place this course.</p>
<p>Graduates should be able to work effectively as a member of a software development team</p>	<p>Grades of team projects given in each major courses</p> <p>Documented evaluation from supervisor/mentor of internship program(s) student participated</p>	<p>100% of majors will participate one or more team projects in major courses and 100% of them will receive B or higher in team work. Student's performance in a team will be assessed by the faculty and peer students based on a rubric developed by the faculty and the students in the course.</p> <p>80% of majors will participate an internship program and 100% of them will receive an evaluation that is equivalent B or higher (good ~ excellent)</p>	<p>Information is not available at this time.</p> <p>The graduating student did not have a formal internship, but did have positive work experience which she related to department members.</p>	<p>Attempts will be made to increase student enrollment in Computer Science to facilitate "teams".</p> <p>Greater emphasis will be placed on providing internship experience for all upper level students. A more formal evaluation will be developed.</p>

