

# Program Assessment Report

Information Technology – Software Development 14/15 Program Assessment Report							BASELINE YEAR	
	1. Design, document and implement solutions to software problems using professional tools and current software technologies.	2. Design effective and efficient applications using structured, object oriented, event driven, and modular programming methods.	3. Plan and manage projects effectively both individually and within a team in the information technology business environment.	4. Design and fully implement flexible database schema including triggers, stored procedures, and views analyzed to 3rd normal form.	5. Design effective and efficient queries to retrieve data from a 56 relational database.	6. Create web applications that let users create, retrieve, update, and delete data stored in a database via effective interactive interfaces.	7. Integrate into their work lives the rules of professional business courtesy and conduct.	Instructor Comments
Course: ITEC 2900 Capstone for Software Developers Assessment: Capstone project Benchmark: earn at least 70% or higher on personal score of their capstone project Faculty: Doug Kranch Date: End of Spring term	67% met benchmark 6 students							The overall score was a summative assessment of all aspects of the final project; hence, it required a student's failing to meet several individual element assessment marks to miss the overall mark. One student missed the minimum mark by not dressing for 2 of the 4 presentations, not submitting weekly minutes, not submitting an acceptable database plan, and submitting an inferior final report. The other student submitted no weekly minutes and an inferior final report. Although students were continually reminded of the minutes, more emphasis should be placed on the final report.
Course: ITEC 2900 Capstone for Software Developers Assessment: Capstone project Benchmark: earn at least 70% on the programming segment of their capstone project Faculty: Doug Kranch Date: End of Spring term		100% met benchmark 6 students						As the emphasis of the program is on programming, this score indicates that students are learning the requisite programming skills for this summative project.

<p>Course: ITEC 2900 Capstone for Software Developers  Assessment: Capstone project  Benchmark: earn at least 4.0 out of 5.0 on personal team evaluation  Faculty: Doug Kranch  Date: End of Spring term</p>			<p>100%  met benchmark  6 students</p>					<p>The lowest composite peer score received was 4.25, even though this individual received many complaints from teammates. The 4 elements in this evaluation are cooperativeness, punctuality, enthusiasm for the team goals, and overall value to the team. Elements should be added that reflects the team members' interactions. These could be: This team member was an effective leader; this team member was an effective follower; I would like to have this person to be a permanent member of any development team I am on. That students who failed to meet this criterion also did not meet multiple composite criteria suggests that a summative assessment of knowledge should be made before students are permitted to enroll in the capstone course. This also speaks to the failure of an internship to meet the rigorous assessment methods of the capstone course. An internship is not the equivalent of a capstone course.</p>
<p>Course: ITEC 2900 Capstone for Software Developers  Assessment: Capstone project  Benchmark: earn at least 70% on the database design portion of their capstone project  Faculty: Doug Kranch  Date: End of Spring term</p>				<p>83%  met benchmark  6 students</p>				<p>One student failed to meet these two criteria. That the student failed both is understandable as designing an effective database and designing effective queries are intimately related. This student also failed to meet the overall benchmark. The student was marginal in grades for previous courses.</p>
<p>Course: ITEC 2900 Capstone for Software Developers  Assessment: Capstone project  Benchmark: earn at least 70% in the database query section of the capstone project  Faculty: Doug Kranch  Date: End of Spring term</p>					<p>83%  met  benchmark  6 students</p>			<p>One student failed to develop an effective interface. This was one of the two students who failed to meet the overall criterion.</p>
<p>Course: ITEC 2900 Capstone for Software Developers  Assessment: Capstone project  Benchmark: earn at least 70% on the user interface of their capstone project  Faculty: Doug Kranch  Date: End of Spring term</p>						<p>83%  met benchmark  6 students</p>		<p>One student failed to dress properly for two of the four presentation. This was one of the two students who failed to meet the overall criterion.</p>
<p>Course: ITEC 2900 Capstone for Software Developers  Assessment: Capstone project  Benchmark: earn at least 70% as a general score for appearance and presentation</p>							<p>83%  met  benchmark  6 students</p>	<p>One student failed to dress properly for two of the four presentation. This was one of the two students who failed to meet the overall criterion.</p>

during the presentations in the capstone project Faculty: Doug Kranch Date: End of Spring term								
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Summary of Instructor Recommendations:

- More emphasis should be placed on the final report.
- Elements should be added to the peer evaluation that reflects the team members' interactions. These could be: This team member was an effective leader; this team member was an effective follower; I would like to have this person to be a permanent member of any development team I am on.
- A summative assessment of knowledge should be made before students are permitted to enroll in the capstone course.
- An internship should not be allowed as an alternative to the capstone course as it does not meet the rigorous assessment methods of the capstone course.

Note from Program Coordinator:

This Capstone section only had six students, and they are graduating from the prior Computer Information Systems program. This program was converted to Information Technology Networking and Software Development, which launched last year (Fall 2014).

Update 11/5/15: Dr. Timberlake, Dean, believes that the Software Development program should be a transfer degree, since we continue to struggle to retain students in the current program and he does not see any signs that this might change.

With this change in direction, it is unlikely that there will be any changes made to the existing program, and instead, the focus will be creating a new AS Degree for Software Development.