Course Assessment Results aligned to Program SLOs

San Mateo CCCD

CAN Program - Engineering/CIS

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Apply knowledge of math, science, and engineering or computer science to identify, formulate, and solve engineering/computer science problems.	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Data types - Distinguish and use various Ruby data types (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 3 **Assessment Method Category:** Exam **Related Documents:** CIS 113 - Assessments	03/18/2011 - Class average 92 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** CIS 113 - Assessment Results CIS 113 - Assessment Results	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Flow control techniques - Implement programming tasks using Ruby flow control techniques (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 4,5 **Assessment Method Category:** Exam	03/19/2011 - Class average 71 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Blocks and iterators - Understand and use Ruby blocks and iterators (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 6 **Assessment Method Category:** Exam	03/19/2011 - Class average 84. **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Arrays - Use arrays and hashes effectively (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 3 **Assessment Method Category:** Other	03/19/2011 - Class average: 63 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	

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	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Exceptions - Use exceptions to handle various run-time errors (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 4 **Assessment Method Category:** Other	03/19/2011 - Class average: 97 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Binary and text files - Read and write binary and text files (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 1 **Assessment Method Category:** Other	03/19/2011 - Class average: 96 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - CGI - Develop CGI programs (with embedded Ruby) (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 2 **Assessment Method Category:** Other	03/19/2011 - Class average: 91 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
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	Programming with Ruby - Client/server apps - Develop client/server apps using Ruby (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Photoalbum project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 58 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Graphical user interface - Develop Graphical User Interfaces in wxRuby (Created By CAN Dept - Computer Information Science)	**Assessment Method:** GUI project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 58 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Ruby on Rails - Develop basic Ruby on Rails applications (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Final project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 72 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Simple - Correctly write, compile and execute a Java program to solve a simple problem with user input. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that asks the user to enter three test scores. The program should display each test score, as well as the average of the scores. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 06/07/2011 - Program must compile and run properly. Program must not crash and must handle erroneous user input (reprompt). Program must check for division by 0 and report correct result. 84.07	

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	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Class - Correctly implement a class in Java and create a driver program to test the class. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a class named Car that has the following fields: ? year - an int field that holds the year the car was made ? make - a String field that holds the make of the car ? speed - an int field that holds the car's current speed **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - decisions - Correctly use decision structures in a Java program to execute alternatives depending on user input. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** A bank charges $10 per month plus the following check fees for a commercial checking account: $0.10 for each check if less than 20 checks were written $0.08 for each check if 20 through 39 checks were written $0.06 for each check if 40 through 59 checks were written $0.04 for each check if 60 or more checks were written The bank also charges an extra $15 if the account balance falls below $400 (before any check fees are applied). Design a class that stores the ending balance of an account and the number of checks written. It should also have a method that returns the bank's service fees for the month.	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 06/07/2011 - Test program must compile and run properly. Solution must consist of a class containing approprite methods. Solution must handle errors. Solution must contain Javadoc comments. Solution must produce correct results for test input. 80.0 **Result Type:** Criterion met	

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		Assessment Method Category: Other	**Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - repetition - Correctly use repetition in a Java program to solve a problem. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that correctly uses iteration. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Arrays and Files - Correctly use an array to store data read from a file, process the data and write the results to a file. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that correctly uses an array **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - GUI - Correctly implement a GUI interface for a Java application or applet. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that utilizes a GUI interface **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - control - Correctly use control structures in a program (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that plays a guessing game **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	

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	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - array - Correctly use an array to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that lets the user enter the total rainforest for each of 12 months into an array of doubles. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
			05/18/2011 - 17 out of 19 students were able to do this perfectly, and the remaining 2 declared the array but were unable to fill it with data correctly. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - pointers - Correctly use pointers, dynamic memory allocation and file operations to solve a problem. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that reads a file of integers and dynamically allocates an array large enough for them. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
			05/18/2011 - 16 out of 19 students were able to do this correctly, and the remaining 3 students were unable to open the file and read the integers successfully. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	

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	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - library - Correctly use library classes and exceptions to handle errors in a program (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Use a stack to create an RPN calculator and use exceptions to handle any errors. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - inheritance - Correctly use inheritance to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Design a class named Employee. Write one or more constructors and the appropriate accessor and mutator methods for the class. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - Big-O - Correctly use Big-O notation to describe how the runtime of an algorithm depends on size. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Use Big-O to describe runtime of 2 algorithms for finding the sum of the numbers from 1 to N. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - linked-list - Correctly use a linked-list to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a method that rearranges a linked list to put the nodes in even positions after the nodes in odd position in the list. **Assessment Method Category:** Other		

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	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - ADT - Correctly implement an abstract data type (ADT) as a C++ class. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Design and implement a double-ended queue. **Assessment Method Category:** Other		

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Use techniques, skills, and modern engineering and computer tools necessary for engineering or computer science practice	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Data types - Distinguish and use various Ruby data types (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 3 **Assessment Method Category:** Exam **Related Documents:** CIS 113 - Assessments	03/18/2011 - Class average 92 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** CIS 113 - Assessment Results CIS 113 - Assessment Results	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Flow control techniques - Implement programming tasks using Ruby flow control techniques (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 4,5 **Assessment Method Category:** Exam	03/19/2011 - Class average 71 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Blocks and iterators - Understand and use Ruby blocks and iterators (Created	**Assessment Method:** Midterm-Problem 6 **Assessment Method Category:** Exam	03/19/2011 - Class average 84. **Result Type:** Criterion met **Reporting Cycle:**	

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	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Client/server apps - Develop client/server apps using Ruby (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Photoalbum project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 58 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	
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	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - GUI - Correctly implement a GUI interface for a Java application or applet. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that utilizes a GUI interface **Assessment Method Category:** Other		
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Design and perform tests or experiments, analyze and interpret data, and prepare a report summarizing the results of the tests or experiments.	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Data types - Distinguish and use various Ruby data types (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 3 **Assessment Method Category:** Exam **Related Documents:** CIS 113 - Assessments	03/18/2011 - Class average 92 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** CIS 113 - Assessment Results CIS 113 - Assessment Results	
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	Programming Methods I: C++ - control - Correctly use control structures in a program (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that plays a guessing game **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - array - Correctly use an array to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that lets the user enter the total rainforest for each of 12 months into an array of doubles. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
			05/18/2011 - 17 out of 19 students were able to do this perfectly, and the remaining 2 declared the array but were unable to fill it with data correctly. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - pointers - Correctly use pointers, dynamic memory allocation and file operations to solve a problem. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that reads a file of integers and dynamically allocates an array large enough for them. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
			05/18/2011 - 16 out of 19 students were able to do this correctly, and the remaining 3 students were unable to open the file and read the integers successfully.	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
			Result Type: Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - library - Correctly use library classes and exceptions to handle errors in a program (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Use a stack to create an RPN calculator and use exceptions to handle any errors. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - inheritance - Correctly use inheritance to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Design a class named Employee. Write one or more constructors and the appropriate accessor and mutator methods for the class. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - Big-O - Correctly use Big-O notation to describe how the runtime of an algorithm depends on size. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Use Big-O to describe runtime of 2 algorithms for finding the sum of the numbers from 1 to N. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - linked-list - Correctly use a linked-list to solve a problem (Created By CAN	**Assessment Method:** Write a method that rearranges a linked list to put the nodes in even positions after the nodes in odd position in the list. **Assessment Method Category:**		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	Dept - Computer Information Science)	Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - ADT - Correctly implement an abstract data type (ADT) as a C++ class. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Design and implement a double-ended queue. **Assessment Method Category:** Other		

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Develop a design or system given a set of requirements and specifications.	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Data types - Distinguish and use various Ruby data types (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 3 **Assessment Method Category:** Exam **Related Documents:** CIS 113 - Assessments	03/18/2011 - Class average 92 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** CIS 113 - Assessment Results CIS 113 - Assessment Results	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Flow control techniques - Implement programming tasks using Ruby flow control techniques (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 4,5 **Assessment Method Category:** Exam	03/19/2011 - Class average 71 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Blocks and iterators - Understand and	**Assessment Method:** Midterm-Problem 6 **Assessment Method Category:**	03/19/2011 - Class average 84. **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	use Ruby blocks and iterators (Created By CAN Dept - Computer Information Science)	Exam	2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Arrays - Use arrays and hashes effectively (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 3 **Assessment Method Category:** Other	03/19/2011 - Class average: 63 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Modules - Use built-in Ruby modules and create new (user-defined) modules (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 8 **Assessment Method Category:** Exam	03/19/2011 - Class average: 70 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Exceptions - Use exceptions to handle various run-time errors (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 4 **Assessment Method Category:** Other	03/19/2011 - Class average: 97 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Binary and text files - Read and write binary and text files (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 1 **Assessment Method Category:** Other	03/19/2011 - Class average: 96 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	

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	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - CGI - Develop CGI programs (with embedded Ruby) (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Lab 2 **Assessment Method Category:** Other	03/19/2011 - Class average: 91 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Client/server apps - Develop client/server apps using Ruby (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Photoalbum project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 58 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Graphical user interface - Develop Graphical User Interfaces in wxRuby (Created By CAN Dept - Computer Information Science)	**Assessment Method:** GUI project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 58 **Result Type:** Inconclusive **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Ruby on Rails - Develop basic Ruby on Rails applications (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Final project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 72 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Simple - Correctly write, compile and execute a Java program to solve a simple problem with user input. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that asks the user to enter three test scores. The program should display each test score, as well as the average of the scores. **Assessment Method Category:**	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	Science)	Other	2012 - 2013	
			06/07/2011 - Program must compile and run properly. Program must not crash and must handle erroneous user input (reprompt). Program must check for division by 0 and report correct result. 84.07 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Class - Correctly implement a class in Java and create a driver program to test the class. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a class named Car that has the following fields: ? year - an int field that holds the year the car was made ? make - a String field that holds the make of the car ? speed - an int field that holds the car's current speed **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - decisions - Correctly use decision structures in a Java program to execute alternatives depending on user input. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** A bank charges $10 per month plus the following check fees for a commercial checking account: $0.10 for each check if less than 20 checks were written $0.08 for each check if 20 through 39 checks were written $0.06 for each check if 40 through 59 checks were written $0.04 for each check if 60 or more checks were written	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 06/07/2011 - Test program must compile and run properly. Solution must consist of a class containing approprite methods.	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
		The bank also charges an extra $15 if the account balance falls below $400 (before any check fees are applied). Design a class that stores the ending balance of an account and the number of checks written. It should also have a method that returns the bank's service fees for the month. **Assessment Method Category:** Other	Solution must handle errors. Solution must contain Javadoc comments. Solution must produce correct results for test input. 80.0 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - repetition - Correctly use repetition in a Java program to solve a problem. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that correctly uses iteration. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Arrays and Files - Correctly use an array to store data read from a file, process the data and write the results to a file. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that correctly uses an array **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - GUI - Correctly implement a GUI interface for a Java application or applet. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that utilizes a GUI interface **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 250 -			

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	Programming Methods I: C++ - control - Correctly use control structures in a program (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that plays a guessing game **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2013 - 2014	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - array - Correctly use an array to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that lets the user enter the total rainforest for each of 12 months into an array of doubles. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
			05/18/2011 - 17 out of 19 students were able to do this perfectly, and the remaining 2 declared the array but were unable to fill it with data correctly. **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - pointers - Correctly use pointers, dynamic memory allocation and file operations to solve a problem. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that reads a file of integers and dynamically allocates an array large enough for them. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013	
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			Result Type: Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - library - Correctly use library classes and exceptions to handle errors in a program (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Use a stack to create an RPN calculator and use exceptions to handle any errors. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 250 - Programming Methods I: C++ - inheritance - Correctly use inheritance to solve a problem (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Design a class named Employee. Write one or more constructors and the appropriate accessor and mutator methods for the class. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - Big-O - Correctly use Big-O notation to describe how the runtime of an algorithm depends on size. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Use Big-O to describe runtime of 2 algorithms for finding the sum of the numbers from 1 to N. **Assessment Method Category:** Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - linked-list - Correctly use a linked-list to solve a problem (Created By CAN	**Assessment Method:** Write a method that rearranges a linked list to put the nodes in even positions after the nodes in odd position in the list. **Assessment Method Category:**		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	Dept - Computer Information Science)	Other		
	CAN Dept - Computer Information Science - CAN CIS 252 - Programming Methods II: C++ - ADT - Correctly implement an abstract data type (ADT) as a C++ class. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Design and implement a double-ended queue. **Assessment Method Category:** Other		

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Communicate effectively and work well in situations that require teamwork.	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Data types - Distinguish and use various Ruby data types (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 3 **Assessment Method Category:** Exam **Related Documents:** CIS 113 - Assessments	03/18/2011 - Class average 92 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011 **Related Documents:** CIS 113 - Assessment Results CIS 113 - Assessment Results	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Flow control techniques - Implement programming tasks using Ruby flow control techniques (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Midterm-Problem 4,5 **Assessment Method Category:** Exam	03/19/2011 - Class average 71 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Graphical user interface - Develop	**Assessment Method:** GUI project **Assessment Method Category:**	03/19/2011 - Class average: 58 **Result Type:** Inconclusive **Reporting Cycle:**	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
	Graphical User Interfaces in wxRuby (Created By CAN Dept - Computer Information Science)	Capstone Assignment/Project	2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 113 - Internet Programming with Ruby - Ruby on Rails - Develop basic Ruby on Rails applications (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Final project **Assessment Method Category:** Capstone Assignment/Project	03/19/2011 - Class average: 72 **Result Type:** Criterion met **Reporting Cycle:** 2009 - 2010	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Simple - Correctly write, compile and execute a Java program to solve a simple problem with user input. (Created By CAN Dept - Computer Information Science)	**Assessment Method:** Write a program that asks the user to enter three test scores. The program should display each test score, as well as the average of the scores. **Assessment Method Category:** Other	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met **Reporting Cycle:** 2012 - 2013 06/07/2011 - Program must compile and run properly. Program must not crash and must handle erroneous user input (reprompt). Program must check for division by 0 and report correct result. 84.07 **Result Type:** Criterion met **Reporting Cycle:** 2010 - 2011	
	CAN Dept - Computer Information Science - CAN CIS 118 - Intro to Object-Oriented Prgm - Class - Correctly implement a class in Java and create a driver program to test the class. (Created By CAN Dept -	**Assessment Method:** Write a class named Car that has the following fields: ? year - an int field that holds the year the car was made ? make - a String field that holds the	03/28/2013 - Students demonstrated outcome by successfully writing and demonstrating program **Result Type:** Criterion met	

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	Computer Information Science)	make of the car ? speed - an int field that holds the car's current speed **Assessment Method Category:** Other	**Reporting Cycle:** 2012 - 2013	

SLO	Course Outcomes	Means of Assessment & Success Criteria / Tasks	Results	Action & Follow-Up
Formulate a plan of study to obtain a Bachelor?s degree in engineering or computer science.				