



CSC143 - Computer Programming II

Document Type: Master Course Outline

Proposal Type: Revision

Requester(s): Daniel J Jinguji

College: North

Origination Approved: 12/09/2015 - 1:25 PM

BASIC INFORMATION

Requester(s): Daniel J Jinguji

College: North Seattle College

Division/Dept: Math / Science

Dean: Alissa D Agnello

Peer Reviewer(s): Lori Whitish

COURSE INFORMATION

Proposed Course Number:

Prefix: **CSC**

Number: **143**

Request a new Prefix

This will be a common course

Full Title: Computer Programming II

Abbreviated Title: Computer Programming II

Catalog Course Description:

Advanced concepts of modern programming that continue the ideas introduced in CSC 142. Topics include classes and interfaces, inheritance, graphics, exceptions, stream I/O, recursion, analysis of algorithms, and some dynamic structures (lists, stacks, trees). Uses the Java programming language.

Prerequisite: CSC 142.

Course Length: 11 Weeks

Request an Exception

Topical Outline:

- Inheritance and Class Relationships
- Swing and Graphical User Interface (GUI) Design and Implementation
- Structured Exception Handling
- Dynamic Data Structures
 - Linked Lists
 - Other linear collections: Sets, Stacks, Queues
 - Non-linear collections: binary trees, binary search trees, hash tables
- Recursion
- Analysis of Algorithms (Big-O notation)
- Additional topics as determined by instructor. May include:
 - Stream IO
 - Java packages and namespace

- Unit testing and JUnit
- Java server pages

COURSE CODING

Funding Source: 1.....State

Institutional Intent: 11.....Academic Transfer

Select the Distribution Area of the AA Degree that this course will satisfy, if applicable:

Distribution Areas

Q/SR Quantitative Symbolic Reasoning

Will this course transfer to a 4-year university? **Yes**

Please Describe:
Transfers to UW as CSE 143

Is this course designed for Limited English Proficiency? **No**

Is this course designed for Academic Disadvantaged? **No**

Does this course have a Workplace Training component? **No**

CIP Code: 11.0101 Request Specific CIP Code

Credits:

Will this course be offered as Variable Credit? No
No

List Course Contact Hours

Lecture (11 Contact Hours : 1 Credit)	55
Lab (22 Contact Hours : 1 Credit)	0
Clinical Work (33 Contact Hours : 1 Credit)	0
Other (55 Contact Hours : 1 Credit)	0
Total Contact Hours	55
Total Credits	5

This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

Daniel J Jinguji
Print Name

Daniel J Jinguji
Signature

11/3/2015
Date

Dean:

Alissa D Agnello
Print Name

Alissa D Agnello
Signature

10/1/2015
Date

Results of NSCC Curriculum and Academic Standards Committee Findings

Participating Faculty Response and Remarks

- Recommended for approval
- Not recommended for approval

Chairman, Curriculum and Academic Standards Committee:

Brian Palmer
Print Name

Brian Palmer
Signature

12/9/2015
Date

Vice President for Instruction:

Kristen A Jones
Print Name

Kristen A Jones
Signature

12/9/2015
Date