

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code:  
ASCSPJ

Program Name:  
Computer Science: Programming in Java

Effective Term:  
Winter 2014

Division Code: BCT

Department: Computer Instruction Dept. (CIS/CPS/etc.)

**Directions:**

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

**Requested Changes:**

- |  |   |
|--|---|
| <input type="checkbox"/> Review  | <input type="checkbox"/> Program admission requirements   |
| <input type="checkbox"/> Remove course(s): _____   | <input type="checkbox"/> Continuing eligibility requirements  |
| <input checked="" type="checkbox"/> Add course(s): CPS255 - IOS/Objective C – Apple Ipad/Iphone_____ | <input type="checkbox"/> Program outcomes   |
| <input type="checkbox"/> Program title (title was _____)   | <input type="checkbox"/> Accreditation information  |
| <input type="checkbox"/> Description   | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
| <input type="checkbox"/> Type of award   | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> Advisors  |   |
| <input type="checkbox"/> Articulation information  |   |

Show all changes on the attached page from the catalog.

**Rationale for proposed changes or discontinuation:**

Adding CPS255 (IOS/Objective C – Apple Ipad/Iphone) class to the program.

**Financial/staffing/equipment/space implications:**

**List departments that have been consulted regarding their use of this program.**

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Clarence Hasselbach	<i>Clarence Hasselbach</i>	2/19/2013
Department Chair	<i>John Trame</i>	<i>John Trame</i>	2/19/2013
Division Dean/Administrator	<i>Rosemary Wilson</i>	<i>Rosemary Wilson</i>	2/20/13
Vice President for Instruction	<i>William Kennedy</i>	<i>William Kennedy</i>	3/22/13
President	<i>N/A</i>		

Do not write in shaded area. Entered in: Banner C&A Database 3/29/13 Log File 3/20/13 Board Approval

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.

*Indone logged 2/20/13 sjv*

Program Information Report

**Computer Science: Programming in Java (ASCSPJ)**

**Associate in Science Degree**

**Program Effective Term: Fall 2013**

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

**Articulation:**

Eastern Michigan University, BS degree;  
Kaplan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges>.

**Program Admission Requirements:**

Students need an Academic Math Level of 4 or higher to enroll in MTH 176.

CPS 161	An Introduction to Programming with Java	4
Elective	MTH 176 or higher 4 credit math course	4
	Arts/Human. 1 Elective(s)	3
	Computer Lit. Elective(s)	3
ENG 111	Composition I	4
CPS 261	Advanced Java Concepts	4
CPS 276	Web Programming Using Apache, MySQL, and PHP	4
	Soc. Sci. 1 Elective(s)***	3
COM 225	Intercultural Communication*	3
CPS 278	Java Server Programming	4
	Nat. Sci. Elective(s)**	4
	Soc. Sci. 2 Elective(s)***	3
Elective	Students must complete 100-level or above transferrable courses to reach a minimum of 60 credits. Possible CIS/CPS electives include: CIS 121, CIS 282, CPS 171, CPS 255, CPS 271 or CPS 272.	3
CPS 251	Android Programming Using Java	4
ENG 226	Composition II	3
	Arts/Human. 2 Elective(s)	3
	Soc. Sci. 3 Elective(s)***	3
Elective	Students must complete 100-level or above transferrable courses to reach a minimum of 60 credits. Possible CIS/CPS electives include: CIS 121, CIS 282, CPS 171, CPS 255, CPS 271 or CPS 272.	3-12

**Minimum Credits Required for the Program:**

**62**

**Notes:**

\*Satisfies EMU's Diverse World Requirement.

\*\*Students transferring to a four-year institution should choose a lab-based, MACRAO-approved science course.

\*\*\*Choose three courses from at least two disciplines.

See an advisor to choose courses that meet the requirements of the program to which you are transferring.

# Computer Science: Programming in Java (ASCSPJ)

Associate in Science Degree

2010 - 2011 2011 - 2012 2012 - 2013

## Description

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

## Articulation

Eastern Michigan University, BS degree;  
Kaplan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site:  
[www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges](http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges).

## Admissions Requirements

Students need an Academic Math Level of 4 or higher to enroll in MTH 176.

## Contact Information

**Division:** Business/Computer Technologies  
**Department:** Computer Instruction Dept  
**Advisors:** [Philip Geyer](#), [Clarence Hasselbach](#), [Khaled Mansour](#)

## Requirements

### First Semester

Class	Title	Credits
CPS 161	An Introduction to Programming with Java	4
	MTH 176 or higher 4 credit math course	4
Elective(s)	Arts and Humanities 1	3
Elective(s)	Computer and Information Literacy	3
<b>Total</b>		<b>14</b>

### Second Semester

Class	Title	Credits
ENG 111	Composition I	4
CPS 261	Advanced Java Concepts	4
CPS 276	Web Programming Using Apache, MySQL, and PHP	4
Elective(s)	Social and Behavioral Science 1 ***	3
<b>Total</b>		<b>15</b>

### Third Semester

Class	Title	Credits
COM 225	Intercultural Communication *	3
CPS 278	Java Server Programming	4
Elective(s)	Natural Sciences **	4
Elective(s)	Social and Behavioral Science 2 ***	3
	Students must complete 100-level or above transferrable courses to reach a minimum of 60 credits. Possible CIS/CPS electives include: CIS 121, CIS 282, CPS 171, CPS 271 or CPS 272.	3
<b>Total</b>		<b>17</b>

add to the list of electives  
CPS 255

**Fourth Semester**

Class	Title	Credits
CPS 251	Android Programming Using Java	4
ENG 226	Composition II	3
Elective(s)	Arts and Humanities 2	3
Elective(s)	Social and Behavioral Science 3 ***	3
Students must complete 100-level or above transferrable courses to reach a minimum of 60 credits. Possible CIS/CPS electives include: CIS 121, CIS 282, CPS 171, CPS 271 or CPS 272.		3 - <del>X</del>
<b>Total</b>		16 - <del>25</del>
<b>Total Credits Required:</b>		62 - <del>71</del>

*add to the list of electives CPS 255*

**Footnotes**

\*Satisfies EMU's Diverse World Requirement.

\*\*Students transferring to a four-year institution should choose a lab-based, MACRAO-approved science course.

\*\*\*Choose three courses from at least two disciplines.

See an advisor to choose courses that meet the requirements of the program to which you are transferring.

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: ASCPJ<sup>5</sup> Program Name: Computer Science: Programming in Java Effective Term: 201209

Division Code: BCTD Department: CIS

Directions:

- 1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

Requested Changes:

- Review
Remove course(s): See program edits, attached.
Add course(s): See program edits, attached.
Program title (title was \_\_\_\_\_)
Description
Type of award
Advisors
Articulation information
Program admission requirements
Continuing eligibility requirements
Program outcomes
Accreditation information
Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses)
Other: Articulation notes.

Show all changes on the attached page from the catalog.

Rationale for proposed changes or discontinuation:

General education requirements for the ASCPJ Programming in Java degree have been changed to be consistent with the general education requirements for the ASISPC Programming in C++ degree. Electives for the Major/area requirements have been eliminated in favor of an expanded five course series in Java Programming. This series of courses will provide students with more thorough skills in Java programming that will prepare them better for transfer into Java-based undergraduate computer science programs and for work as Java programmers/software developers.

Financial/staffing/equipment/space implications:

None

List departments that have been consulted regarding their use of this program.

NA

Signatures:

Table with 4 columns: Reviewer, Print Name, Signature, Date. Rows include Initiator, Department Chair, Division Dean/Administrator, Vice President for Instruction, and President.

Do not write in shaded area. Entered in: Banner C&A Database Log File Board Approval

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to sjohn@wccnet.edu for posting on the website.

logged 2/15/12 sjohn
Office of Curriculum & Assessment

## **Program Information Report**

### **School of Information Technology**

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer networking or programming in the growing field of applied information technology.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate and General Education requirements.

### **Programming**

Learn the foundation of computer programming or specialize in a programming language through these programs.

Program Information Report

**Computer Science: Programming in Java (ASCSPJ)**

**Associate in Science Degree**

**Program Effective Term: Fall 2012**

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

**Articulation:**

Eastern Michigan University, BS degree;  
Kaplan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges>.

**Program Admission Requirements:**

Students need an Academic Math Level of 4 or higher to enroll in MTH 176.

CPS 161	An Introduction to Programming with Java	4
Elective	MTH 176 or higher 4 credit math course	4
	Arts/Human. 1 Elective(s)	3
	Computer Lit. Elective(s)	3
ENG 111	Composition I	4
CPS 261	Advanced Java Concepts	4
CPS 276	Web Programming Using Apache, MySQL, and PHP	4
	Soc. Sci. 1 Elective(s)	3
COM 225	Intercultural Communication*	3
CPS 278	Java Server Programming	4
	Nat. Sci. Elective(s)**	4
	Soc. Sci. 2 Elective(s)	3
Elective	Students must complete 100-level or above transferrable courses to reach a minimum of 60 credits. Possible CIS/CPS electives include: CIS 121, CIS 282, CPS 171, CPS 271 or CPS 272.	3
CPS 251	Android Programming Using Java	4
ENG 226	Composition II	3
	Arts/Human. 2 Elective(s)	3
	Soc. Sci. 3 Elective(s)	3
Elective	Students must complete 100-level or above transferrable courses to reach a minimum of 60 credits. Possible CIS/CPS electives include: CIS 121, CIS 282, CPS 171, CPS 271 or CPS 272.	3-12

**Minimum Credits Required for the Concentration or Option:**

**Minimum Credits Required for the Program: 62**

**Notes:**

- \*Satisfies EMU's Diverse World Requirement.
- \*\*Students transferring to a four-year institution should choose a lab-based, MACRAO-approved science course.

See an advisor to choose courses that meet the requirements of the program to which you are transferring.

PROGRAM CHANGE OR DISCONTINUATION FORM

Program Code: Program Name: Computer Science: Programming in Java(ASCSP1)  
 Division Code: Department: CPS

Effective Term: Fall 2011

**Directions:**

1. Attach the current program listing from the WCC catalog or Web site and indicate any changes to be made.
2. Draw lines through any text that should be deleted and write in additions. Extensive narrative changes can be included on a separate sheet.
3. Check the boxes below for each type of change being proposed. Changes to courses, discontinuing a course, or adding new courses as part of the proposed program change, must be approved separately using a Master Syllabus form, but should be submitted at the same time as the program change form.

**Requested Changes:**

- |   |   |
|---|---|
| <input type="checkbox"/> Review   | <input type="checkbox"/> Program admission requirements   |
| <input type="checkbox"/> Remove course(s): _____  | <input type="checkbox"/> Continuing eligibility requirements  |
| <input checked="" type="checkbox"/> Add course(s): CPS251 and CPS278 to the list of options | <input type="checkbox"/> Program outcomes   |
| _____   | <input type="checkbox"/> Accreditation information  |
| <input type="checkbox"/> Program title (title was _____)                                    | <input type="checkbox"/> Discontinuation (attach program discontinuation plan that includes transition of students and timetable for phasing out courses) |
| <input type="checkbox"/> Description  | <input type="checkbox"/> Other _____  |
| <input type="checkbox"/> Type of award  |   |
| <input type="checkbox"/> Advisors   |   |
| <input type="checkbox"/> Articulation information   |   |

Show all changes on the attached page from the catalog.

**Rationale for proposed changes or discontinuation:**

For the elective under the Major/Area Requirements section, we would like to add CPS251, and CPS278 to the list of courses that can be chosen for the elective.

**Financial/staffing/equipment/space implications:**

None

**List departments that have been consulted regarding their use of this program.**

None

**Signatures:**

Reviewer	Print Name	Signature	Date
Initiator	Clarence Hasselbach	<i>Clarence Hasselbach</i>	11/24/10
Department Chair	Clarence Hasselbach	<i>Clarence Hasselbach</i>	11/24/10
Division Dean/Administrator	Rosemary Wilson	<i>Rosemary Wilson</i>	11/29/10
Vice President for Instruction	Stuart Blacklaw	<i>Stuart Blacklaw</i>	1/18/11
President			

Do not write in shaded area. Entered in: Banner C&A Database 3/4/11 Log File 12/1/10 Board Approval 3/4/11

Please submit completed form to the Office of Curriculum and Assessment and email an electronic copy to [sjohn@wccnet.edu](mailto:sjohn@wccnet.edu) for posting on the website.



## Program Information Report

## School of Information Technology

The School of Information Technology gathers the diverse areas that make up the computer technology of today. From basic programming languages to systems development through networking, these programs provide the core of information technology. Develop skills in computer security or data recovery analysis, the growing field of applied information technology is waiting for you.

Washtenaw Community College offers programs at several levels for students who want to begin new careers, or advance in their existing careers. The first level is the certificate, which can vary from nine to thirty-six credits, depending on the field. Certificates generally prepare students for entry-level jobs.

After completing a certificate, students can progress to the next level, the advanced certificate. The credit hours required for these programs also vary. This type of certificate provides a more specialized level of skill development, and often allows students to upgrade their positions at their places of employment.

The next level, an Associate in Applied Science, is available for some programs. For some career fields, it is possible to earn a certificate, advanced certificate, and an Associate in Applied Science degree in the same field. In these cases, the credit hours from the certificate and advanced certificate can be applied to the credit hours needed for the Associate in Applied Science degree.

Alternatively, students can earn an AAS in Occupational Studies by completing a certificate, advanced certificate and General Education requirements.

## Programming

Learn the foundation of computer programming or specialize in a programming language through these programs.

### Computer Science: Programming in Java (ASCSPJ)

#### Associate in Science Degree

**Program Effective Term: Fall 2011**

This program prepares students to transfer to Eastern Michigan University to complete a bachelor's degree in Computer Science or Applied Computer Science and to pursue careers in computer science fields such as computer systems programming and analysis, software development and maintenance, and applications programming.

#### Articulation:

Eastern Michigan University, BS degree.

Copies can be obtained from the Counseling Office, a program advisor, or from the Curriculum and Assessment Office Web site: <http://www.wccnet.edu/departments/curriculum/articulation.php?levelone=colleges>.

#### Program Admission Requirements:

Students need an Academic Math Level of 4 or higher to enroll in MTH 176.

<b>General Education Requirements</b>		<b>(36 credits)</b>
ENG 111 and	Composition I	4
ENG 226	Composition II	3
COM 225	Intercultural Communication	3
MTH 176	College Algebra	4
CEM 111 or	General Chemistry I	
GLG 114 or	Physical Geology	
PHY 211	Analytical Physics I	4-5
Soc. Sci.	Elective(s)***	9
Arts/Human.	Elective(s)****	6
CIS 100	Introduction to Computers and Software Applications	3
<b>Major/Area Requirements</b>		<b>(11 credits)</b>
CPS 161	An Introduction to Programming with Java	4
CPS 261	Programming Data Structures in Java	4
Elective	Complete one course from: CIS 121, CIS 221, CIS 282, CPS 120, CPS 171, CPS 251, CPS 271, CPS 278, CPS 293 or INP 150.	3-4
<b>Required Support Courses</b>		<b>(5 credits)</b>
MTH 191	Calculus I	5
<b>Required Courses</b>		<b>(12 credits)</b>
Elective	Students must complete 100-level or above transferrable courses.*****	12-15

**Program Information Report**

**Minimum Credits Required for the Program:**

**64**

**Notes:**

*\*Satisfies EMU's Diverse World Requirement.*

*\*\*MTH 176 should be completed at WCC to satisfy EMU's Quantitative Reasoning Requirement. If completed at EMU, MATH 110 will be required unless waived by ACT/SAT or math placement score.*

*\*\*\*Choose three courses from at least two disciplines.*

*\*\*\*\*Students transferring to a four-year institution should choose a lab-based, MACRAO-approved science course.*

*\*\*\*\*\*Students intending to transfer to EMU to complete the Comprehensive Computer Science Degree must take the following courses: MTH 192, MTH 197 and a second course in a sequence: CEM 122, GLG 125 or PHY 222.*