



PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Institution Name St. Charles Community College
Program Name AS Programing Languages
Date 9/29/14

(Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below. Quantification of performance goals should be included wherever possible.)

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.
None
- Characteristics of a specific population to be served, if applicable.
General student population with an interest in pursuing a BS in Programing Languages.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
Masters Degree or higher
- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.
50% of credit hours will be assigned to full time faculty
- Expectations for professional activities, special student contact, teaching/learning innovation.
Ongoing professional development is required of all full-time faculty

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
35
- Percent of full time and part time enrollment by the end of five years.
75% full time, 25% part time

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4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
Three years – 5 graduates per annum, Five years – 10 graduates per annum
- Special skills specific to the program.
Scientific skills necessary to successfully transfer to a BS program in a Programming Languages related field.
- Proportion of students who will achieve licensing, certification, or registration.
NA
- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
[Click here to enter text.](#)
- Placement rates in related fields, in other fields, unemployed.
NA
- Transfer rates, continuous study.
90%

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. **If there are no plans to seek specialized accreditation, please provide a rationale.**
College accredited by HLC no program specific accreditation to be sought

6. Alumni and Employer Survey

- Expected satisfaction rates for alumni, *including timing and method of surveys.*
90% 180 days after graduation; mailed survey followed up my telephone
- Expected satisfaction rates for employers, including timing and method of surveys.
NA

7. Institutional Characteristics

- Characteristics demonstrating why your institution is particularly well-equipped to support the program.
Currently St. Charles Community College offers several related AAS degree options in computer science with supporting course work including several basic programming languages that are potentially relevant to a student interesting in transferring to a Bachelor program if

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they receive guidance as to which specific coursework their transfer institution will accept. SCC currently has a dedicated Technology building with numerous specialized labs and an open lab. In Fall 2014 5 full-time computer science faculty members taught the equivalent of 5.6 FTE and 21 adjunct faculty taught the equivalent of 8.2 FTE.



PROGRAM STRUCTURE

A. Total credits required for graduation: 65 - 66

B. Residency requirements, if any: 15

C. General education: Total credits: 38 - 39

Courses (specific courses OR distribution area and credits):

Course Number	Credits	Course Title
MAT-190	5	Calculus & Analytical Geometry I
MAT-230	5	Calculus & Analytical Geometry II
MAT-240	5	Calculus & Analytical Geometry III
MAT-175	3	Introductory Statistics
ENG-101	3	English Composition I
ENG-102	3	English Composition II
SPE-101	3	Oral Communication
Natural Science	4 - 5	
Social Science	3	1 course must comply with provisions of Section 170.011 RsMo
Humanities	3	
COL-101	1	College Success Seminar

D. Major requirements: Total credits: 27

Course Number	Credits	Course Title
CPT-103	3	Microcomputer Applications
CPT-165	3	Computer Programming Logic
CPT-136	3	Python Programming
CPT-200	3	System Analysis and Design
CPT-	15	Courses in Major For Transfer Institution*
		*Currently developing articulation agreements in programing with Missouri State Univ., Southeast Missouri State Univ., and Webster Univ. Plans are to work with additional four-year partners as appropriate.

E. Free elective credits:

0

(Sum of C, D, and E should equal A.)

F. Requirements for thesis, internship or other capstone experience:

None

G. Any unique features such as interdepartmental cooperation:

Two-Year Plan Associate of Science Programing Languages

First Year

First Semester

Course Numk	Course Title	Credits
ENG-101	English Composition I	3
MAT-190	Calculus & Analytical Geometry I	5
COL-101	College Success Seminar	1
BTC\CPT	Microcomputer Applications	3
CPT-165	Computer Programming Logic	3
CPT-135	Python Programming	3
Total		18

Second Semester

Course Numk	Course Title	Credits
ENG-102	English Composition II	3
MAT-230	Calculus & Analytical Geometry II	5
HIS-101		3
or		
HIS-102		
or		
HIS-115		
or	U.S. History to 1877	
HIS-270	U.S. History Since 1877	
or	U.S. History Since 1945	
POL-101	History of Missouri	
or	American Government	
POL-102	State and Local Government	
CPT-	Course in Major For Transfer Institution	3
CPT-	Course in Major For Transfer Institution	3
Total		17

Second Year

First Semester

Course Numk	Course Title	Credits
MAT-240	Calculus & Analytical Geometry III	5
SPE-101	Oral Communication	3

or			
ART-150			
or			
ART-160			
or			
ART-170			
or			
MUS-111			
or			
MUS-112	Art Appreciation		
or	Survey of Western Art History I: Prehistory to End of the Middle Ages		
MUS-231	Modern and Contemporary Art History		
or	Design I		
MUS-232	Music Appreciation		
or	Jazz Appreciation		
THE-122	Music History I		
or	Music History II		
THE-123	Introduction to Theater		
or	Introduction to Cinema		
THE-124	History of Film		
or	Any Literature Course		
LIT-	Any Philosophy Course		
ANY or	Any Arabic Course		
PHL-	Any French Course		
ANY or	Any German Course		
ARB-	Any Spanish Course		
CPT-	Course in Major For Transfer Institution	3	
CPT-	Course in Major For Transfer Institution	3	
		Total	17

Second Semester

Course Numk	Course Title	Credits
MAT-175	Introductory Statistics	3
PHY-	College Physics I / College Physics I Laboratory	4-5
240/PHY	Introduction to Physical Geology / Introduction to Physical Geology Laboratory	
243 or	Introduction to Physical Science / Introduction to Physical Science Laboratory	
PHY-	Introduction to Chemistry / Introduction to Chemistry Laboratory	
125/127	Human Biology / Human Biology Laboratory	
or		
PHY-		
111/113		
or		
CHM-		
101/103		
or		
BIO-		
110/113		

CPT-200	Systems Analysis and Design	3
CPT-	Course in Major For Transfer Institution	3
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	Total	13-14



STUDENT ENROLLMENT PROJECTIONS

Year	1	2	3	4	5
Full Time	10	15	20	25	30
Part Time	5	10	10	10	10
Total	15	25	30	35	40

Please provide a rationale regarding how student enrollment projections were calculated:

Based on current enrollment in Computer Science programming and related courses, transfer data, and student and enrollment services feedback.

Provide a **rationale** for proposing this program, including **evidence of market demand and societal need supported by research**:

According to the United States Department of Labor between 2012 and 2022 the number of job openings for computer programmers will see an estimated increase of 8.3%. The median annual salary in this high demand occupation in 2012 was \$74,280. Since the typical entry-level education is a Bachelor's degree it is very important for SCC to provide a seamless pathway to transfer to the 4-year institutions for our graduates. (Source: <http://data.bls.gov/oep/noeted>)