

# ASSOCIATE IN COMPUTER SCIENCE (DTA/MRP)

## Direct Transfer Agreement (DTA)/Major Related Program (MRP)

(93-103 credits)<sup>1,2,3</sup>

<sup>1</sup> For students needing MATH& 141 Precalculus I, there are 103 credits required for the CS AA.

<sup>2</sup> For students placing into MATH& 151 Calculus I, there are 93 credits required for the CS AA.

<sup>3</sup> Natural science courses outside the list may not transfer, please check with your target institution. Consider ENV& 100 Survey of Environmental Science or ENV& 203 Climate and Energy Solutions as options too.

## Program Description

Work in a field that changes quickly, offers frequent opportunities to grow and problem-solve, and immerses you in technology. As a student of computer science at SPSCC, you'll find high-paying employment opportunities in a wide range of industries. Become a part of our 30-year track record of serving our community and helping our students find employment – all at a fraction of the cost of a private institution or a coding “boot camp”.

The Direct Transfer Agreement degree is designed for persons interested in transferring to a four-year college or university to study computer science. Students who successfully complete degree requirements and elective courses recommended for their specific area of study will transfer 90 quarter credits to the following institutions:

- Central Washington University
- The Evergreen State College
- Seattle University
- University of Washington Tacoma (UWT)
- Washington State University (all campuses except Tri-Cities)

Students must take discrete structures at the target institution

- Western Washington University

Some institutions require additional course(s) at the target institution before the transfer student is accepted into the Computer Science program; see the Target Institution Advising Notes below for more details.

CONTACT THE TARGET INSTITUTION: Admission to the target institution is not guaranteed to students holding a DTA degree. Contact your transfer target institution early in the educational planning process. Universities may: update course choices within each area, require a minimum overall GPA, require a higher GPA in a selected subset of courses, or require a specific minimum grade in one or more courses such as Math or English.

## Career Opportunities

- Network Administrator
- Computer Hardware Engineer

- Data Manager
- Web Developer

## Target Institution Advising Notes

Washington State University – Student should plan on taking Discrete Structures at WSU.

Students can graduate in four years from:

- Seattle University
- The Evergreen State College
- University of Washington Tacoma (UWT)

Students may need more time at:

- Central Washington University
- Washington State University (all campuses except Tri-Cities)
- Western Washington University

## Outcomes

South Puget Sound Community College believes that all students need to develop a broad range of abilities that will not only make them more effective in their professional pursuits but will enhance their capacity to relate well to others in their daily lives.

- Prepares students for transfer to computer science and related majors at universities and colleges in Washington State, as outlined in the Spring 2016 Statewide Computer Science DTA Major Related Program (MRP) Agreement

The SPSCC college-wide abilities are embedded into each program:

- Effective Communication
- Information Literacy
- Analytical Reasoning
- Multicultural Awareness
- Social Responsibility

## Courses by Quarter

In planning this degree students need to work closely with their faculty advisor and the transfer institution so that the science credits within the degree create a seamless passage to the transfer institution. Although the Computer Science DTA/MRP degree transfers to four-year colleges and universities in Washington State, it may not meet specific department requirements. Based on placement testing or self-placement, students may need to complete basic skills and/or pre-college English and mathematics. Often, pre-college courses are prerequisites for college-level courses that are necessary for graduation. \*Students who do not test, place, or transfer into MATH& 151 (Calculus I) will need to take precalculus (MATH& 141 and/or MATH& 142) as part of preparatory/pre-college work for this degree.

To earn an Associate in Computer Science DTA/MRP degree, all courses taken must be:

- At college level (numbered 100 or above).
- A class can only count once toward General Education requirements. For example, IIS 125 will satisfy either HUMANITIES or SOCIAL SCIENCE course requirements, but not both.

- A cumulative grade point average of 2.0 or above in all college-level courses required.
- Although this degree is a general transfer degree, South Puget Sound Community College has provided pathways and associated recommended courses for ease of student selection based upon a student's career interest. Please review the pathway maps for recommended courses and course sequences.

## Courses by Quarter

Code	Title	Credits
<b>Quarter 1</b>		
Transition Studies		
<b>Quarter 2</b>		
AMATH 097	Corequisite Intermediate Algebra	7
ENGL 090	Integrated Reading and Writing I	5
or ENGL 095	Integrated Reading and Writing II	
<b>Quarter 3</b>		
AMATH 141	Corequisite Precalculus I <sup>1</sup>	8
ENGL 098	Transitional English Composition	5
or ENGL& 101	English Composition I	
CCS 101	Pathways to Success	3
<b>Quarter 4</b>		
MATH& 142	Precalculus II	5
ENGL& 235	Technical Writing	5
PHIL& 120	Symbolic Logic	5
<b>Quarter 5</b>		
MATH& 151	Calculus I <sup>2</sup>	5
SOC& 101	Introduction to Sociology: Diversity	5
Select one of the following:		
ART 101	Introduction to Art	5
MUSC 100	Music Fundamentals	
PHIL& 101	Introduction to Philosophy	
PHIL 102	Ethics	
PHIL& 115	Critical Thinking	
<b>Quarter 6</b>		
MATH& 152	Calculus II	5
PHYS& 221	Engineering Physics I w/Lab	5
Select one of the following:		
CMST& 210	Interpersonal Communication: Diversity	5
CMST& 230	Small Group Communication: Diversity	
CMST& 240	Intercultural Communication: Diversity	
<b>Quarter 7</b>		
MATH& 153	Calculus III	5
or MATH& 254	Calculus IV	
ECON& 201	Micro Economics	5
or ECON& 202	Macro Economics	
PHYS& 222	Engineering Physics II w/Lab	5
<b>Quarter 8</b>		
MATH& 153	Calculus III	5
or MATH& 254	Calculus IV	
CS 142	Object-Oriented Programming I	5
PHYS& 223	Engineering Physics III w/Lab	5
<b>Quarter 9</b>		

CS 143	Object-Oriented Programming II	5
Select one of the following: <sup>3</sup>		
BIOL& 160	General Biology W/Lab	5
CHEM& 121	Introduction to Chemistry	
CHEM& 161	General Chemistry w/Lab I	
OCEA& 101	Introduction to Oceanography W/Lab	
Select one of the following:		
BUS& 101	Introduction to Business	5
HIST& 146	US History I	
PSYC& 100	General Psychology	

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## Pathway Maps

South Puget Sound Community College has provided pathways and associated recommended courses for ease of student selection based upon a student's career interest. Please review the pathway maps for required and recommended courses.

Computer Science  
Associate in Computer Science DTA/MRP  
93-103 Credits

Qtr. 1	Qtr. 2	Qtr. 3	Qtr. 4	Qtr. 5	Qtr. 6	Qtr. 7	Qtr. 8	Qtr. 9
Transition Studies	AMATH 097 (5cr) Corequisite Intermediate Algebra  Includes ability to complete MATH 099 MATH 097	AMATH 141 (5cr) Corequisite Precalculus I  Includes ability to complete MATH 141 *MATH& 141  *Some students may place directly into MATH& 141	MATH& 142 (5cr) Pre-Calculus II	**MATH& 151 (5cr) Calculus I	MATH& 152 (5cr) Calculus II	Choose one (5cr) MATH& 153 (5cr) Calculus III All quarters  MATH& 254 (5cr) Calculus IV Fall only	Choose one (5cr) MATH& 153 (5cr) Calculus III All quarters  MATH& 254 (5cr) Calculus IV Fall only	***Choose One (5cr): MATH& 153 (5cr) Calculus III All quarters  BIOL& 160 General Biology w/Lab CHEM& 121 Introduction to Chemistry CHEM& 161 General Chemistry w/Lab OCEA& 101 Introduction to Oceanography w/Lab
	ENGL 090 (5cr) Integrated Reading and Writing I  ENGL 095 (5cr) Integrated Reading and Writing II	ENGL 098 (5cr) Transitional English Composition  ENGL 101 (5cr) English Composition I	ENGL& 235 (5cr) Technical Writing	Choose One (5cr): (Humanities/ recommended)  ART 101 Introduction to Art MUSC 100 Music Fundamentals PHIL& 101 Introduction to Philosophy PHIL 102 Ethics PHIL& 115 Critical Thinking	Choose One (5cr): (Math/Science/ recommended)  CMST& 210 Interpersonal Communication : Diversity CMST& 230 Small Group Communication : Diversity CMST& 240 Intercultural Communication : Diversity	Choose one (5cr) SOC& 101 Introduction to Sociology	ECON& 201 Micro Economics  ECON& 202 Macro Economics	CS 142 (5cr) Object-Oriented Programming I Fall, Winter only  CS 143 (5cr) Object-Oriented Programming II Winter, Spring only
	CCS 101 (3cr) Pathways to Success	(Humanities) PHIL& 120 (5cr) Symbolic Logic Spring only	(Social Science) SOC& 101 (5cr) Introduction to Sociology	PHYS& 221 (5cr) Engineering Physics I w/Lab	PHYS& 222 (5cr) Engineering Physics II w/Lab	PHYS& 223 (5cr) Engineering Physics III w/Lab	Choose One (5cr): (Social Science, recommended) BUS& 101 Introduction to Business HIST& 146 US History I PSYC& 100 General Psychology	

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