

COMPUTER SCIENCE MAJOR at SUNWAY UNIVERSITY 2012-2013
BS Computer Science at Plymouth State University 2013-2014

Sunway Requirements (2012-13 Catalog)	Credits	Satisfies PSU Requirement (2013-14 Catalog)	Credits
*BIOL 1013 General Biology (Area VI)	<i>and</i>		
*BIOL 1021 General Biology Laboratory (Area VI)	4	SIDI Scientific Inquiry Direction	4
CHEM 1033 General Chemistry	<i>and</i>		
CHEM 1041 General Chemistry I Laboratory	4	CH 2330 General Chemistry I (QRCO) (TECO)	4
*CHEM 1053 General Chemistry II	<i>and</i>		
*CHEM 1061 General Chemistry II Laboratory	4	SIDI Scientific Inquiry Direction (substitution)	4
*COMM 1013 Public Speaking and Presentation Skills	3	credits toward BS degree	3
CSCP 1014 Programming I	4	CS 2010 Computing Fundamentals (TECO)	4
CSCP 2014 Programming II	4	credits toward BS degree	4
MATH 1034 Calculus I	4	MA 2550 Calculus I (MATH)	4
MATH 1044 Calculus II	4	MA 2560 Calculus II (QRCO)	4
MATH 1054 Discrete Mathematics Structure	3	MA 3200 Discrete Mathematics	3
MATH 3024 Linear Algebra	4	credits toward BS degree	4
*PHYS 2014 Physics I	4	credits toward BS degree	4
*PHYS 2021 Physics I Laboratory	1	credits toward BS degree	1
*PHYS 2034 Physics II	4	credits toward BS degree	4
*PHYS 2041 Physics II Laboratory	1	credits toward BS degree	1
General Education and Proficiency Courses	18		18
Area I: THEA 1013 Introduction to Theatre		CTDI Creative Thought Direction (substitution)	
Area II: HIST 3013 Intellectual History of Modern West		GACO Global Awareness Connection	
Area III: HIST 1013 Multicultural America		PPDI Past and Present Direction and DICO	
Area IV: POLS 3013 Pacific Asia Today		credits toward BS degree	
Area V: Social and Behavioral Sciences		SSDI Self and Society Direction (substitution)	
Area VII: Natural Science and Technology		credits toward BS degree	
COMM 1023 Introduction to Human Communications		credits toward BS degree	
CSCI 1013 Introduction to Computer Applications		credits toward BS degree	
ENGL 2014 Introduction to Critical and Creative Writing		EN 1999 Composition (COMP)	
MATH 1013 Finite Mathematics		credits toward BS degree	
MATH 1024 Pre-calculus		credits toward BS degree	

Total required for Computer Science Major at Sunway 45-66 Sub-total 45-66

Complete approximately 45-66 credit hours with a minimum grade of C in all courses

*Computer Science Theory and Analysis major.

CS 2220 Computer Hardware	3
CS 2370 Programming in Java	4
CS 2381 Data Structures/Intermediate Programming	4
CS 2470 Systems Programming in C/C++	2
CS 3221 Algorithm Analysis	4
CS 3600 Database Management Systems	4
CS 3720 Systems Analysis and Design	3
CS 3780 Introduction to Computational Theory	3
CS 4140 Software Engineering	3
CS 4250 Computer Architecture	3
CS 4310 Operating Systems	3
CS 4520 CyberEthics (DICO) (INCO) (WRCO)	3
CS 4750 Senior Project	3
Computer Science Major Electives – complete two	6
MA 2300 Statistics I (QRCO)	3
CTDI Creative Thought Direction	3
PPDI Past and Present Direction	3
SSDI Self and Society Direction	3
WECO Wellness Connection	3
Electives	<u>*12-0</u>
Sub-total	75-54

Total required for the degree 120

*three credits for IS 1111 become electives for transfer students entering with 24 or more credits

The maximum number of transfer credits that can be applied to a PSU bachelor degree is 90.

Computer Science Major Electives – complete two:

CS 3020 Web Programming

CS 3240 Data Communication and Computer Networks

CS 3500 Introduction to Artificial Intelligence

CS 3700 Computer Graphics

CS 3820 Human-Computer Interaction

CS 4220 System Administration

CS 4400 Computer Networks and Protocols

CS 4420 Computer Security

CS 4920 Computer Science Internship (maximum of three credits)