3

STUDIES IN COMPUTER PROGRAMMING, BPS

Contact

Associate Dean

Ryan O. Williams, Associate Dean of Academic Affairs Professor of Practice College of Professional Studies, rywillia@syr.edu

Program Director

Steve Wallace, Professor of Practice College of Professional Studies, swalla02@syr.edu

Program Questions, contact the College of Professional Studies at 315-443-9378, or email parttime@syr.edu

Faculty List (https://coursecatalog.syracuse.edu/undergraduate/professional-studies/)

Description

The professional studies degree prepares graduates for career placement or advancement in computer programming. Courses will be applied and transdisciplinary – designed to develop and improve work-ready skills through a wide range of computer programming competencies and cognitive skills. It will address the following computer programming knowledge areas: programming fundamentals; programming in various programming languages; critical thinking; problem synthesis and solving; program design; mathematics; and testing, and evaluation.

Student Learning Outcomes

- Design a system, component, or process to meet desired outcomes within realistic constraints.
- Analyze and evaluate programming applications to ensure they are accurate, efficient, and meet required outcomes.
- 3. Exhibit the ability to identify, formulate and solve problems.
- 4. Master advanced programming and interfacing techniques.

Program Requirements					
Code	Title		Credits		
Liberal Studie	s Core				
The Liberal Studies Core gives a foundation in writing, language or quantitative skills, humanities, social science, natural science, and critical reflections. It draws upon lower-division courses in the College of Arts and Sciences.					
Writing					

-			
WRT 105	Studio 1: Practices of Academic Writing	3	
WRT 205	Studio 2: Critical Research and Writing	3	
Quantitative Skills			
Complete 6-8 credits of Quantitative Skills Sequence Requirement outlined in the Liberal Arts Core Guidebook.			
Humanities			
Select six credits from any course listed in the Humanities Division of the Liberal Arts Core Guidebook.			
Social Science			
Select six credits from any course listed in the Social Sciences			

Division of the Liberal Arts Core Guidebook.

Natural Science

Select 3-4 credits from any course listed in the Natural Sciences

3-4

Division of the Liberal Arts Core Guidebook.

Critical Reflections on Fthical & Social Issues

Select 3 credits from any course listed in the Critical Reflections on Ethical & Social Issues Division of the Liberal Arts Core Guidebook.

Students are required to select one Liberal Arts Core Course that meets the IDEA requirement.

Professional Competencies Core

The Professional Competencies Core covers fundamental knowledge and abilities required in the modern workplace, such as ethics and critical thinking, problem solving, human relations, diversity and change management, budgeting and resource management, and teamwork. The Professional Competencies Core includes an introductory course, and a capstone experience required of all B.P.S. students. Designed to draw together issues from across the entire B.P.S. program, these courses summarize concepts covered in the curriculum and develop students' skills in strategic decision-making that looks to the future.

Required Courses

SCP 445

В	PS 144	Orange Immersion	2
В	PS 211	Introduction to Professional Studies	
В	BPS 411 Senior Seminar		3
FYS 101		First Year Seminar	1
Select seven of t		ne following:	21
	ODL 303	Introduction to Change Management	
	BPS 315	Practical Financial Management for the Working Professional	
	BPS 317	Assertiveness in the Workplace for Professional Studies	
	BPS 321	Rhetorical Awareness and the Diverse Workplace	
	ODL 425	Design Thinking for Organizations	
	ODL 335	Conflict Management	
	BPS 382	Leading Cooperative Negotiations	
	ODL 319	Global Leadership	
	CYB 323	Introduction to Information Security for Professional Studies	
	PPM 301	Foundations of Project Management	
	PPM 325	Project Communications and Stakeholder Management	
	SCP 103	Introduction to Computing Systems	
	SCP 225	Concepts in Digital Graphics	
	SCP 295	Esports Fundamentals	
	SCP 435	Multiplayer Game Design Competition	
N	lajor Requireme	nts	
S	CP 220	Basic Principles of Computer Programming	3
S	CP 285	Object-Oriented Programming	3
S	CP 305	Database Management	3
S	SCP 360 Introduction to Mobile Applications		3
S	SCP 350 Introduction to HTML/CSS		3
S	SCP 355 Introduction to Javascript/jQuery		3
S	CP 405	Programming in C++	3
S	CP 420	Web Application and Design	3
S	CP 418	Programming in Java	3

Cross Platform Mobile Application Deployment

3

Total Credits		120-123
Select 27 credits (or as many needed to reach 120 credits)		27
Electives		
SCP 482	System Software Design for Professionals	3

Note

The degree is administered by the College of Professional Studies. Each student should consult with their Academic Advisor to structure a plan for degree completion.

Undergraduate University Requirements

The following requirements and experiences apply to all Syracuse University Undergraduate matriculated degree programs.

- IDEA Course Requirement (https://coursecatalog.syracuse.edu/ undergraduate/idea-course-requirement/)
- First Year Seminar (https://coursecatalog.syracuse.edu/ undergraduate/courses/fys/)