

# Business Programming and Systems Analysis (BPA)

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The Business Programming and Systems Analysis degree program provides the skills required to plan, design, write, implement, and support computer software for varied industries and organizations.

Students gain knowledge of state-of-the-art programming languages and database management systems. Additionally, the team-oriented, project-based coursework familiarizes students with business process modeling, project management, and problem-solving skills.

Graduates earn an Associate of Applied Science degree and are well prepared to enter the workforce as skilled computer programmers or to pursue a bachelor's degree in information systems or computer science.

Courses in the Business Programming and Systems Analysis program are offered using a variety of delivery methods, including fully online and traditional in-person classes, as well as hybrid classes that combine both methods.

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (<http://www.cincinnati.edu/academics/admission>)

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Semester 1		Lec	Lab	Credits
ENG 101	English Composition 1 ( G )	3	0	3
IT 110	HTML with CSS and JavaScript ( B )	2	3	3
FYE 1XX	First Year Experience Elective ( B )	1	0	1
XXX XXX	Arts/Humanities Elective ( G )	3	0	3
IT 100	Computer Programming Foundations ( B )	2	3	3
Semester 2				
IT 101	.NET Programming 1 ( B )	2	3	3
IT 111	Database Design and SQL 1 ( B )	2	3	3
BPA 130	Business Systems Analysis and Design ( B )	2	3	3
ECO 1XX	Economics Elective ( G )	3	0	3

CIT 190	Career Preparation: Engineering and Information Technologies ( B )	1	0	1
Semester 3				
IT 102	.NET Programming 2 ( T )	2	3	3
IT 140	PHP and MySQL ( T )	3	3	4
IT 161	Java Programming 1 ( T )	2	3	3
IT 210	System Design and Implementation ( T )	2	3	3
Semester 4				
BPA 291	Full-Time Cooperative Education 1: Business Programming and Systems Analysis ( T )	1	40	2
XXX XXX	Technical Elective 1 ( T )	2	3	3
Semester 5				
IT 220	Emerging Topics in Computer Software Development ( T )	2	3	3
BPA 290	Business Programming and Systems Analysis Capstone ( T )	3	3	4
MAT XXX	Mathematics Elective ( G )	2	2	3
ENG 10X	English Composition Elective ( G )	3	0	3
IT 162	Java Programming 2 ( T )	2	3	3
Semester 6				
BPA 292	Full-Time Cooperative Education 2: Business Programming and Systems Analysis ( T )	1	40	2
XXX XXX	Technical Elective 2 ( T )	2	3	3
Total Credits:		48	124	65

## Electives

### First Year Experience Elective

FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3

### Arts/Humanities Elective

Any Transfer Module course from ART, LIT, MUS, PHI, REL, THE, or COMM 130	3
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### English Composition Elective

ENG 102	English Composition 2: Contemporary Issues	3
ENG 103	English Composition 2: Writing about Literature	3
ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3

### Economics Elective

ECO 105	Principles of Microeconomics	3
ECO 110	Principles of Macroeconomics	3

### Mathematics Elective

MAT 121	Technical Algebra and Geometry with Statistics	3
MAT 125	Algebra and Trigonometry	4
MAT 131	Statistics 1	3
MAT 151	College Algebra	4
<b>Technical Electives</b> *		
Take two courses from the following:		
BPA 230	Mobile Application Development	4
BPA 240	Emerging Technologies: Web and Mobile Applications	4
BPA 211	Business Application Development 1: RPGLE/DB2	4
BPA 212	Business Application Development 2: RPGLE/DB2	4
CPDM 151	ASP.NET C# 1	3
CPDM 152	ASP.NET C# 2	3
IT 112	Database Design and SQL 2	4
NETC 121	Network Communications 1	3
NETC 122	Network Communications 2	3

\* Students should consult with their advisor before registering for Technical Electives

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

## Faculty

### Program Chair/Advisor

Professor Robert Nields, MBA  
robert.nields@cincinnatiatstate.edu

### Co-op Coordinator

Professor Noelle Grome, ME, MA  
noelle.grome@cincinnatiatstate.edu