Master's Degree in Computer Science (MSCS)

Intended audience and goals

- Students continuing their Computer Science education
  - Prepare T-shaped professionals with cross-domain expertise

Intended audience and goals

- Students continuing their Computer Science education
  - Prepare T-shaped professionals with cross-domain expertise
- Individuals from non-Computer Science backgrounds
  - Align their profile with an evolving demand for CS professionals

Intended audience and goals

- Students continuing their Computer Science education
  - Prepare T-shaped professionals with cross-domain expertise
- Individuals from non-Computer Science backgrounds
  - Align their profile with an evolving demand for CS professionals
- International students
  - Connect with job opportunities and meet industry demand

Program structure at a glance

- **30 credit hours**
  - 7 core courses
  - 2 elective courses
  - 1 co-op/internship OR commensurate experience

- **Bridge course** (3 to 9 credit hours)
  - Taken only if students lack CS knowledge
  - Help students from non-CS backgrounds succeed

Program structure at a glance

0	BRIDGE COURSE*	Programming **Fundamentals** (CSC 500)

*Taken only if students lack CS knowledge. Alternatively, students requiring additional CS preparation can take 260 Object-Oriented Programming I, CSC 360 Object-Oriented Programming II, and CSC 364 Data Structure and Algorithms.

Program structure at a glance

7	CORE COURSES	IT **Project Management** (MBI 650)
6		**Cybersecurity** Fundamentals (MCY 601) **OR** Network **Security** (MCY 602)
5		Operating **Systems** (CSC 560) **OR** **Cloud** Computing (MCY 611)
4		SQL and NoSQL **Databases** (CSC650)
3		**Software** Quality (CSC 640)
2		Applied **Artificial Intelligence** (CSC 625)
1		Advanced **Programming** (CSC 601)
0	BRIDGE COURSE*	Programming **Fundamentals** (CSC 500)

*Taken only if students lack CS knowledge. Alternatively, students requiring additional CS preparation can take 260 Object-Oriented Programming I, CSC 360 Object-Oriented Programming II, and CSC 364 Data Structure and Algorithms.

Program structure at a glance

9	ELECTIVE COURSES	Any CSC, MCY, and MBI course at 500- or 600-level
8		Any CSC, MCY, and MBI course at 500- or 600-level
7	CORE COURSES	IT **Project Management** (MBI 650)
6		**Cybersecurity** Fundamentals (MCY 601) **OR** Network **Security** (MCY 602)
5		Operating **Systems** (CSC 560) **OR** **Cloud** Computing (MCY 611)
4		SQL and NoSQL **Databases** (CSC650)
3		**Software** Quality (CSC 640)
2		Applied **Artificial Intelligence** (CSC 625)
1		Advanced **Programming** (CSC 601)
0	BRIDGE COURSE*	Programming **Fundamentals** (CSC 500)

*Taken only if students lack CS knowledge. Alternatively, students requiring additional CS preparation can take 260 Object-Oriented Programming I, CSC 360 Object-Oriented Programming II, and CSC 364 Data Structure and Algorithms.

Program structure at a glance

10	CO-OP/INTERNSHIP	Computer Science **Co-op**/Internship (CSC 696)
9	ELECTIVE COURSES	Any CSC, MCY, and MBI course at 500- or 600-level
8		Any CSC, MCY, and MBI course at 500- or 600-level
7	CORE COURSES	IT **Project Management** (MBI 650)
6		**Cybersecurity** Fundamentals (MCY 601) **OR** Network **Security** (MCY 602)
5		Operating **Systems** (CSC 560) **OR** **Cloud** Computing (MCY 611)
4		SQL and NoSQL **Databases** (CSC650)
3		**Software** Quality (CSC 640)
2		Applied **Artificial Intelligence** (CSC 625)
1		Advanced **Programming** (CSC 601)
0	BRIDGE COURSE*	Programming **Fundamentals** (CSC 500)

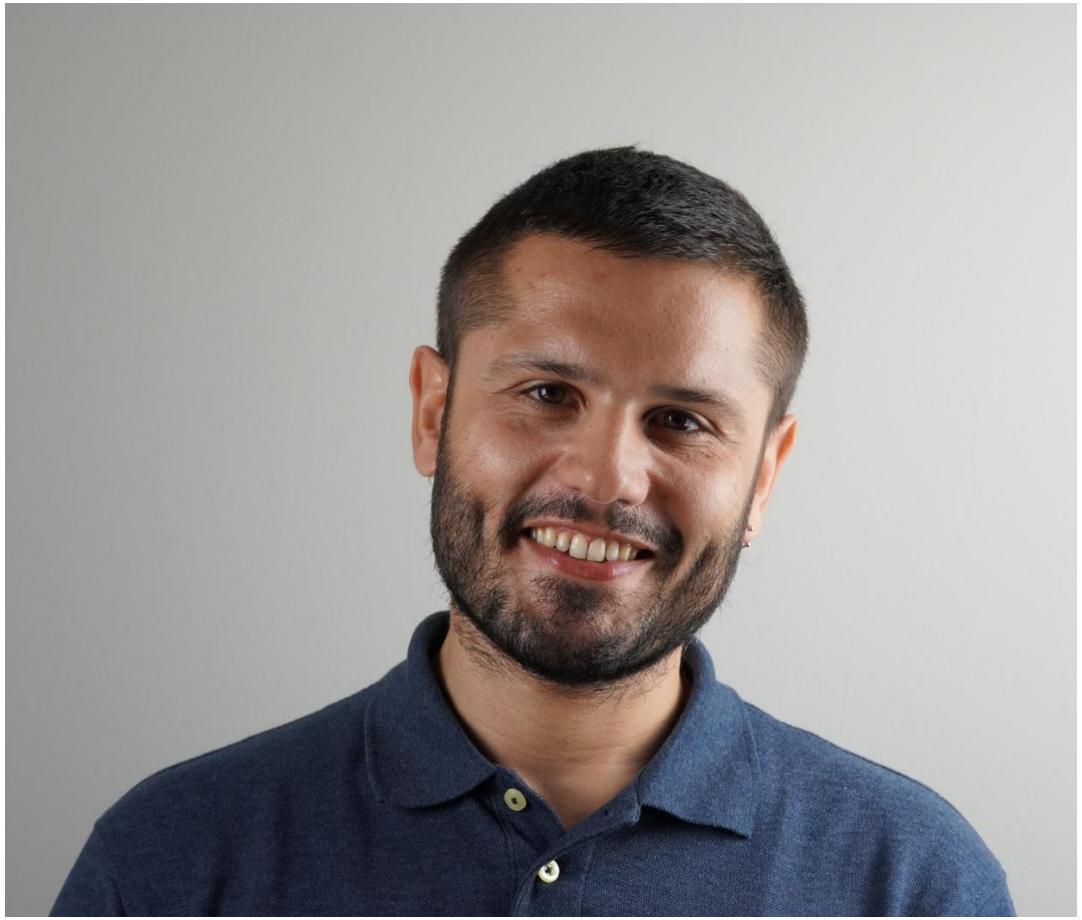
*Taken only if students lack CS knowledge. Alternatively, students requiring additional CS preparation can take 260 Object-Oriented Programming I, CSC 360 Object-Oriented Programming II, and CSC 364 Data Structure and Algorithms.

Roadmap to one-year graduation

- 7-week courses
- No prerequisites
- Online and face-to-face

Fall				Spring				Summer	
I		II		I		II		I	
Course 1	Course 2	Course 3	Course 4	Course 5	Course 6	Course 7	Course 8	Course 9	Course 10

Got questions? I'd love to chat!



Nicholas Caporusso, Ph.D.

- Associate Professor of Computer Science
- MSCS Program Director

caporusson1@nku.edu

linkedin.com/in/nicholascaporusso