Northwestern Michigan College CIT Developer
Program Learning Outcomes Map (Fall 2022)

Course #	PLO1 App. Dev			PLO2 Database			PLO3 Systems			PLO4 Proj Mgmt			PLO5 Teamwork			PLO6 Comm.			PL7 PD			Certification Options *	GenEd Outcomes Comm.	Critical Thinking	Quantitative Reasoning
	I	D	M	I	D	M	I	D	M	I	D	M	I	D	M	I	D	M	I	D	M				
CIT 110	■	■								■						■			■					X	
CIT 178		■		■	■	■	■		■	■			■				■		■			OD-201 (ITS) Databases		X	
CIT 180	■	■	■					■					■				■		■			OD-301 (ITS) HTML and CSS		X	
CIT 190	■	■						■		■							■			■		OD-302 (ITS) Javascript		X	
CIT 195		■						■		■	■													X	
CIT 213													■			■	■		■			OD-101 (ITS) Networking		x	
CIT 218		■	■		■	■					■		■				■							X	
CIT 228		■	■		■	■				■			■				■					OD-303 (ITS) Python		x	
CIT 255		■	■	■	■								■				■					OD-305 (ITS) Sofrware Development		X	
CIT 280		■	■	■	■	■	■	■		■	■		■	■		■	■		■	■				X	
CIT 291		■	■	■	■		■	■					■				■		■						

Program Learning Outcomes

1. **Application Development** - Utilize industry standard processes, tools, and skills required for application development on common platforms.
2. **Database Development** - Utilize industry standard processes, tools, and skills required for database development and administration.
3. **System Analysis and Design** - Demonstrate the systems and design process.
4. **Project Management** - Employ common industry tools and techniques for project management.
5. **Teamwork** - Function effectively as a project team member.
6. **Communications** - Communicate effectively.
7. **Professional Development** - Develop industry-based resources for their ongoing professional development and networking.

* Some certifications are required in the course, and others are optional.

Key
I = Introduce
D = Develop
M = Master