

Cluster: Information Technology			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: 24:15:06:16</p> <p>NEW: 24:15:10:07 24:15:10:08(7)</p>	Information Technology Cluster Endorsement	<p>Formerly K-12 Educational Technology.</p> <p>Requires an educational technology methodology course in addition to 12 semester hours of coursework as follows:</p> <ol style="list-style-type: none"> 1. Demonstrated knowledge of basic computer technologies and networking concepts, terminology tools, and applications; 2. Study of designing, operating, and maintaining computer technologies and networking systems 3. Development of skills with current productivity and multimedia tools for education; 4. Demonstrated competencies with integrating educational technology to support teaching and learning; and 5. Study of equity and ethics associated with the use of educational technology in schools. <p>Study in the developmental characteristics of K-12 learners and a practicum, internship, or student teaching inclusive of K-12 learners is required in addition to the 12 hours.</p>	<p>Requires, completion of career and technical education traditional certification or alternative route to certification</p> <p>AND</p> <ol style="list-style-type: none"> 1. 15 credits total, including: at least 1 credit from each of the following: <ul style="list-style-type: none"> -computer hardware -computer software -web development -computer programming -network technologies OR 2. Passage of the state certification exam: Computer Science Praxis (5651)

Cluster: Information Technology (cont.)			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: None</p> <p>NEW: 24:15:10:01 24:15:10:02(23)</p>	<p>Programming & Software Development Pathway Endorsement</p>	<p>New endorsement. No corresponding old rules.</p>	<p>Requires, completion of career and technical education traditional route to certification; OR CTE specialist route to certification</p> <p>AND</p> <p>1. 9 credits total, including: at least 1 credit from each of the following: -computer programming -database programming -information system analysis OR</p> <p>2. Passage of the state certification exam: NOCTI Computer Programming OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Computer Support Specialist Programming Specialist Database Administrator Software Developer Applications Developer</p>

Cluster: Information Technology (cont.)			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: None</p> <p>NEW: 24:15:10:01 24:15:10:02(24)</p>	<p>Web & Digital Communications Pathway Endorsement</p>	<p>New endorsement. No corresponding old rules.</p>	<p>Requires, completion of career and technical education traditional route to certification; OR CTE specialist route to certification</p> <p>AND</p> <p>1. 9 credits total, including: at least 1 credit from each of the following: -computer graphics -web programming -digital animation OR</p> <p>2. Passage of the state certification exam: NOCTI Web Design OR</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Computer Support Specialist Web Designer Digital Communications Cybersecurity Specialist</p>

Cluster: Information Technology (cont.)			
Administrative Rule	Endorsement Name	Old Rules	New Rules
<p>OLD: 24:15:06:48</p> <p>NEW: 24:15:10:01 24:15:10:02(25)</p>	<p>Networking Systems & Information Support Pathway Endorsement</p>	<p>Formerly Computer Networking.</p> <p>Requires</p> <p>1. completion of career and technical education alternative route to certification</p> <p>OR</p> <p>2. State-approved national certification training in computer networking</p>	<p>Requires, completion of career and technical education traditional route to certification; OR CTE specialist route to certification</p> <p>AND</p> <p>1. 9 credits total, including: at least 1 credit from each of the following: -operating systems -network systems -computer hardware -information system design OR</p> <p>2. Passage of one of the following state certification exams: NOCTI Computer Networking Fundamentals COMPTIA Network+</p> <p>3. 4,000 hours of validated work experience in a related field within the previous five years, including the following: Network & Computer Systems Administrator Computer Support Specialist Cybersecurity Specialist IT Coordinator</p>

Cluster: Information Technology (cont.)			
Administrative Rule	Endorsement Name	Old Rules	New Rules
OLD: None NEW: 24:15:10:01 24:15:10:05	PLTW Computer Science Pathway Endorsement	New endorsement. No corresponding old rules.	Requires, completion of career and technical education traditional route to certification; OR CTE specialist route to certification AND 1. Completion of PLTW Computer Science Training