

**Purpose:** Building 21<sup>st</sup>-century skills for future educators by embedding ISTE standards to all education and education support faculty that will be able to be generalized to other institutions within the Minnesota State system through the McLAB website. The guiding philosophy of the authoring group is that this product and process would be revisited each semester for continued updating of 21<sup>st</sup>-century skills/content.

**End Product:** A rubric for evaluation of technology skills...

**Concepts all education students should know:**

Foundation (ISTE-A ???); (ISTE-T 1.a, 3.a, 4.b, 5.a, 5.b, 5.c, 5.d); (ISTE-S 1.a, 1.b, 1.d, 2.b) - These should be addressed in all areas of the curriculum

- Address diverse needs of all learners
- Model quality use of technology (safe, legal, and ethical)
- Be adaptable to new technology, transferring knowledge and skills (professional development)
- Leveraging technology

Workflow (ISTE-A 2.b); (ISTE-T 1, 2); (ISTE-S 1.ca, 1.c, 4.c, 4.d, 5)

- How to take an idea from concept to completion
- Integrating several tools to complete a task
- Selecting the right tool for the right job
- Using a Learning Management System to control student workflow

Research (ISTE-A 3.d); (ISTE-T 3.d, 1, 2); (ISTE-S 3.a, 3.b)

- Searching
- Separating the wheat from the chaff
- Building reference lists and cites

Capture (ISTE-A 2.c); (ISTE-T 1,2, 3); (ISTE-S 1.b, 1.c); (ISTE-S 3.c, 4.a, 6)

- Video
- Audio
- Photo
- Note taking
- Archival

Productivity (ISTE-A 2.c); (ISTE-T 3); (ISTE-S 1.c, 3.c)

- Document creation
- Using calendars and the like
- Authoring eBooks
- Editing media

Collaboration (ISTE-A 3.bc, 5.c); (ISTE-T 1.c, 1.d, 3.b, 4.d, 2); (ISTE-S 2.a, 2.d, 7)

- Using social media for good and not evil
- File sharing
- Group editing/authoring/discussing/...
- Virtual meetings
- Sharing information with parents/administrators/students

Teaching-related skills (ISTE-A 2.c); (ISTE-T 3.c, 4)

- Communicating with students using classroom hardware, social media, email, ...

- Online gradebooks
- Communicating with parents
- Learning Management Systems

Digital Citizenship (ISTE-A 5.a); (ISTE-T 4.a, 4.c); (ISTE-S 2.b, 2.c, 2.d)

- Ethics
- Safety
- Copyright/plagiarism
- Etiquette

Relevant Learning (ISTE-T 1.b, 2.a, 2.b, 2.c, 2.d); (ISTE-S 1.b, 2.b, 3.d, 4.a, 4.d, 5)

- Real-world problems
- Responsible for own learning
- Multiple learning paths & feedback

ISTE-A = ISTE Standards for Administrators

ISTE-T = ISTE Standards for Teachers

ISTE-S = ISTE Standards for Students