

# Minnesota

## Articulated College Credit Agreement

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### Articulated College Credit Agreement:

Through Articulated College Credit (ACC), specific college curriculum learning outcomes and assessments are embedded in participating high school career and technical education (CTE) programs as specified in this agreement. Relevant knowledge, skills, and standards are taught by qualified CTE high school instructor(s) in one or more high school course. ACC is awarded if the student meets the college equivalency standards and later enrolls in the college(s) listed below requiring the course in a specific program.

**Agreement Name:** Introduction to Information Technology  
**Agreement Reviewed:** 2023 -24

**These credits are valid for students in grades 9-12 for 5 years from the completion of this course.**

Colleges	College Courses	College Programs	Articulated College Credit
Anoka-Ramsey Community College	CNET 1100 – Introduction to Information Technology	*Computer Networking (A.S. – 60 cr.) *Cybersecurity (A.S. – 60 cr.) *System Administration (A.A.S. – 60 cr.) *Computer Network Security (Cert. – 30 cr.) *Network Support & Administration (Cert. – 30 cr.) *IT Support Specialist (Cert. – 16 cr.)	3 credits of 3 total credits (45 hrs. – 30 hrs. lecture; 15 hrs. lab)
Hennepin Technical College	ITEC 2675 – A+ Hardware Support	*Computer Networking (A.S. – 60 cr.) *Cybersecurity (A.S. – 60 cr.) *System Administration (A.A.S. – 60 cr.)	3 credits of 3 total credits (45 hrs. – 30 hrs. lecture; 15 hrs. lab)

### Course Description:

This course covers the fundamentals of computer hardware and software and advanced concepts such as security, networking, and the responsibilities of an IT professional. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Students will also be able to connect to the Internet and share resources in a networked environment. Topics also include mobile devices such as tablets and smartphones and client-side virtualization. Hands-on lab activities are an essential element of the course.

## Outline of Major Content Areas:

1. Introduction to the Personal Computer;
2. Introduction to Lab Procedures and Tool Use;
3. Computer Assembly;
4. Overview of Preventive Maintenance;
5. Windows Installation;
6. Windows Configuration;
7. Networking Concepts;
8. Applied Networking;
9. Laptops and Mobile Devices;
10. Mobile, Linux, and OS X Operating Systems;
11. Printers;
12. Security;
13. IT Professional Responsibilities;
14. Troubleshooting

## Course Learning Outcomes (General):

100% of the course learning outcomes will be covered in the high school course(s) by qualified CTE high school instructor(s).

1. Define information technology (IT) and describe the components of a personal computer
2. Describe how to protect people, equipment, and environments from accidents, damage, and contamination
3. Perform a step-by-step assembly of a desktop computer
4. Explain the purpose of preventive maintenance and identify the elements of the troubleshooting process
5. Install and navigate an operating system
6. Configure computers to connect to an existing network
7. Upgrade or replace components of a laptop based on customer needs
8. Describe the features and characteristics of mobile devices
9. Install and share a printer
10. Implement basic physical and software security principles
11. Apply good communications skills and professional behavior while working with team members
12. Perform preventive maintenance and advanced troubleshooting activities
13. Assess customer needs, analyze possible configurations, and provide solutions or recommendations for hardware, operating systems, networking, and security

## Assessments:

To obtain Articulated College Credit, students will complete the following:

1. Successful completion of the course showing the full range of grasping the course concepts and principles with an **80% or higher**.
2. End-of-course assessment(s) or recommended comprehensive assessment(s) listed below completed with an **80% or higher**.
3. Teachers/faculty may use the recommended comprehensive assessments listed below in a course(s) singly or together to achieve assessing student learning in the course outcomes.

### Recommended Industry-Recognized Certifications or Comprehensive Assessments – College & High School

Certification or Assessment	Vendor	Other Information
Information Technology, Introduction (801)	Precision Exams	<a href="http://www.precisionexams.com">www.precisionexams.com</a>
Computer Technology (250E)	Precision Exams	<a href="http://www.precisionexams.com">www.precisionexams.com</a>
Computer Technology II (251)	Precision Exams	<a href="http://www.precisionexams.com">www.precisionexams.com</a>