

Montgomery County Public Schools

**Network Operations Program of Study**

Information Technology Cluster

Information Technology Foundation (ITF), also known as The Montgomery County Students Information Technology Foundation, Inc., is a non-profit foundation established cooperatively by Montgomery County Public Schools and the business community in Montgomery County to promote and advance the interests of information technology education through the establishment of a student-run computer sales business.

This unique method of preparing high school students for skilled positions in the IT field offers hands-on instruction to students interested in IT careers. Students are introduced to potential employers with available positions in technical service, customer service, sales and management. The ITF program also offers students the opportunity to earn articulated college credits toward post-secondary education. Successful completion of the Network Operations program along with the applicable CompTIA certifications earn students college credit that will put them ahead of the competition.



A list of some of the opportunities available in the information technology industry:

Computer Service Technician

User Support Specialist

Help Desk Technician

Computer Network Specialist  
Systems Analyst  
Network Security  
and many more!

Following are some Post Secondary Opportunities for students options in continued education.

* [University of Maryland , College of Computer, Mathematical and Natural Sciences](http://www.cmns.umd.edu/)
* [Montgomery College Network and Wireless Technologies](http://cms.montgomerycollege.edu/edu/department2.aspx?id=18175)
* [Hagerstown Community College, Technology and Computer Studies Division](http://www.hagerstowncc.edu/academics/divisions/technology-computer)
* [Community College of Baltimore County, School of Applied and Information Technology](http://www.ccbcmd.edu/sait/)
* [University of Baltimore , Information Arts and Technologies](http://iat.ubalt.edu/)
* [Penn College of Technology](http://www.pct.edu/)

The Network Operations Program of Study is available at Clarksburg High School and Thomas Edison High School of Technology.

Montgomery County Public Schools

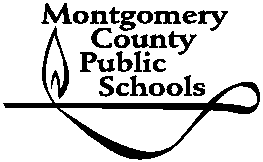
**Advising Worksheet for Network Operations Program of Study**

Information Technology Cluster

Student Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ID#\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ School\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **A TOTAL OF 4.0 CREDITS REQUIRED FOR PROGRAM COMPLETION.**  **Credits must include the Core Required Courses. Capstone courses are preferred to complete the Program but Elective options may also be used for Program completion.** | | | | *For Counselors Use*  *(Credits Earned):* |
| **CORE REQUIRED COURSES FOR THOMAS EDISON HIGH SCHOOL:**  4202 Network Operations A TP  4203 Network Operations B TP | 1.5  1.5 | | | *Total 3.0 Core Credits required for TEHST students:*  *\_\_\_\_\_ earned* |
| **CORE REQUIRED COURSES FOR CLARKSBURG HIGH SCHOOL:**  4242 Network Operations 1 A DP  4243 Network Operations 1 B DP  4244 Network Operations 2 DP | 1.0  1.0  1.0 | | | *Total 3.0 Core Credits required for CHS students:*  *\_\_\_\_\_ earned* |
|  | | | | |
| **CAPSTONE OPTIONS:**  ***Additional courses if students have completed the required core options in Program of Study.***  4187 [Network Ops Internship](http://coursebulletin.montgomeryschoolsmd.org/CourseDetails/Index/4187)  4188 Net Ops Research  7813 [Internship A](http://coursebulletin.montgomeryschoolsmd.org/CourseDetails/Index/7813)  7816 Internship B  7818 Internship DP A  7819 Internship DP B  7822 Internship TP A  7823 Internship TP B | | | 0.5  0.5  0.5  0.5  1.0  1.0  1.5  1.5 | *\_\_\_\_\_ credits earned* |
|  | | | | |
| **ELECTIVE OPTIONS\*:**  ***Additional courses to supplement the required core options in Program of Study.***  2901 AP Comp Programming 2 A  2902 AP Comp Programming 2 B  2922 Foundations of CS PW A  2923 Foundations of CS PW B  2924 AP CS Principles PW A  2925 AP CS Principles PW B  2989 Comp Programming 1 A  2990 Comp Programming 1 B  2991 Web Site Development A  2992 Web Site Development B  5156 Digital Electronics A  5157 Digital Electronics B  5611 Microcomputer Technologies A  5612 Microcomputer Technologies B  5613 Microcomputer Technologies DP A  5614 Microcomputer Technologies DP B | | | 0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  0.5  1.0  1.0 | *\_\_\_\_\_ credits earned* |
|  | | | | |
| **Credits Earned Must Total 4.0**  **(Total credits must include 3.0 from Core Courses)** | | *\_\_\_\_\_\_Total Credits Earned*  🗆 *Student successfully completed the Network Operations Program of Study* | | |

*\*Thomas Edison students take available options at home school*

ARTICULATION CREDIT AWARD FORM

Montgomery County Public Schools Program  
**Network Operations**

Montgomery College Programs **Cybersecurity A.A.S.: 356A; Network and Wireless Technologies A.A.S.: 354; IT Professional+ Certificate: 254; Network Engineer Certificate;**

Montgomery County Public Schools and Montgomery College have an articulation agreement for the **Network Operations** and **Network and Wireless Technologies** programs. Students may earn college credits toward their college degrees through the **Cybersecurity** and **Network and Wireless Technologies** College Tech Prep Program if they maintain a B average or better in the high school portion of these. Students will receive advanced standing credit upon their full admission to the College in the relevant degree programs listed below.

**Student Directions**:

1. Submit an [application for admission](http://www.montgomerycollege.edu/admissions-registration/application.html) to MC.
2. Print this Articulation Credit Award Form.
3. Return the completed Articulation Credit Award Form and if required, the test certification forms to your high school registrar for verification.
4. Ask the registrar to attach a copy of your official transcript to the Articulation Credit Award Form and mail to: Montgomery College, Transcript Evaluator, Office of Admissions and Records, 51 Mannakee St., Rockville, MD, 20850.
5. Sign below to signify that you’ve read over this Credit Award Form and you understand the requirements of earning credit at MC.

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student E-Mail: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Home Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

City, State, Zip: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cell Phone: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

High School Attended: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date of High School Graduation: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

High School Official Signature and Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Check appropriate MC curriculum.** | **Indicate grade received for high school courses.** | | **Check CompTIA certification tests passed.** | **Corresponding college courses.** |
| ***Final Grade*** | MCPS **Network Operations** Program |
| 🞏 Cybersecurity AAS: 356A  🞏 IT Professional+ Certificate: 254  🞏 Network and Wireless Technologies AAS:354  🞏 Network Engineer Certificate |  | 4202 Network Operations A, TP ***OR*** | CompTIA A+ Certification | NWIT 127 Microcomputer Essentials  (3 credits) |
|  | 4242/4243 Network Operations 1, DP |
|  | 4203 Network Operations B TP  ***OR*** | CompTIA Network+ | NWIT 151 Introduction to Networking  (3 credits) |
|  | 4244 Network Operations 2, DP |

**NOTE**: Some of these courses may not transfer to four-year institutions. Check with the four-year institution to determine transferability of Career and Technology Education courses. Students may also be required to take an exam to earn credits for some of these courses.

DP = double period; TP = triple period.