

Criteria For Measurement Revised October 2010

National Centers of Academic Excellence in Information Assurance Education and Training Program for 2 Year Institutions (CAE2Y)

Applicant Submission from Inver Hills Community College

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The National Information Assurance Education & Training Centers of Excellence program is open to nationally or regionally accredited 2-year Community Colleges, technical schools, state or federally endorsed IA/Cybersecurity training centers or U.S. Government IA/Cybersecurity training centers. The mission of the nationally accredited institution must be in the Information Assurance (IA) and/or Cyber education arena. Applications must be submitted electronically via the online application process. Applications are assessed against criteria, listed below, which are intended to measure the depth and maturity of programs of instruction in IA/Cyber education and training. Applicants must clearly demonstrate how they meet each of the six criteria. Minimum requirements for each of the criteria must be met in order to obtain designation. Successful applicants are designated as a National IA Education and Training Center of Excellence for a period of 5 years academic years, after which they must successfully reapply in order to retain the designation. The criteria is reviewed annually and strengthened as appropriate to keep pace with the evolving nature of IA/Cyber. (*Designation of National IA Education and Training Center of Excellence does not carry a commitment of funding from the National Security Agency or from the Department of Homeland Security.*)

Provide a link to the letter that was mailed to the NSA Program Office stating intent to apply for the CAE2Y program, verifying status as a 2-year institution, and providing evidence of national or regional accreditation. (You will be able to add the link just before formal submission after the 'Prepare for review' button is selected.)

http://

(There is a requirement that a letter of intent on official institution letterhead, signed at an appropriate level (Dean or higher), and a verifying the 2-year status and national or regional accreditation of the school must be mailed to the NSA Program Office prior to the due date for the CAE2Y application.) The mailing address follows:

National Security Agency
Attn: CAE Program Office
9800 Savage Rd., SAB3, Suite 6744
Ft. Meade, MD 20755-6744

Prerequisite: Prior to submitting an application for the National Centers of Academic Excellence in IA Education Program, IA courseware must be certified under the IA Courseware Evaluation Program (<http://www.nsa.gov/ia/academia/iace.cfm?MenuID=10.1.1.1>) as meeting the Committee on National Security Systems (CNSS) Training Standards (<http://www.cnss.gov>) and the certification must be current. Specifically, certification for CNSS Training Standard [4011](#) is required, and certification of at least one additional CNSS Training Standard ([4012](#), [4013](#), [4014](#), [4015](#), [4016](#) or subsequent standards) is required.

Verify that your university has met the CAE2Y Program prerequisite by identifying the CNSS Training Standards to which you have mapped and the date of certification for each standard. (You will be able to

add/update this information just before formal submission after the 'Prepare for review' button is selected.)

Standard	Date of Certification (mm/dd/yyyy)
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1. IA Partnerships: Extending IA beyond the normal boundaries of the College/Institution and bringing current IA practitioners into the IA Center. Provide evidence of partnerships in IA education with 4-year schools, other Community Colleges, Two-Year Technical schools, K-12 schools, Industry Schools, Government Schools, Federal/State Agencies, Business, Industry or Non profit organizations. Evidence must be in the form of an articulation agreement, Memorandum of Agreement, letters of endorsement, etc. between the schools. Articulation Agreements must be specific to IA programs. Partnership(s) may include: Shared curriculum and resources (IA teaching materials provided); shared faculty (faculty on curriculum committee for more than one institution); and reciprocity of credits.

Overall Point Value: 10 minimum/20 maximum

a. Shared Curriculum (e.g., IA teaching materials provided to technical schools, universities, community colleges, K-12 schools, etc.)

Point Value: Up to 5 points

SUBMISSION:

Letter of Application:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={B0D5D95C-12FD-4544-8DA5-4B3D9AF6A437}.

Website for course and curriculum alignment: www.inverhills.cnss.project.mnscu.edu.

Inver Hills Community College is accredited by the North Central Association of Colleges and Schools Higher Learning Commission:

http://www.hlcommission.org/component/option,com_directory/Action,ShowBasic/Itemid,184/institid,1793/lang,en/.

Inver Hills Community College shares curriculum with the following partners:

--Minnesota State Colleges and Universities Center of Excellence, Advance IT Minnesota.

This grant-funded Center of Excellence, formerly known as the Center for Strategic Information Technology and Security, was created when a joint proposal submitted by Metropolitan State University, Inver Hills Community College, and Minneapolis Community and Technical College was funded. Information about this Center of Excellence is available at: <http://www.advanceitmn.org/pages/about-advance-it-minnesota>.

--K-12 including South St. Paul Public School System, St. Paul Public School System, Rosemount High School, Apple Valley High School, and Burnsville Public School System, through the After School Cisco Academy and Summer Cisco Academy. St. Paul School District students get high school credit for the classes. All students taking classes can get college credit in the two year degree if they successfully complete some of the classes in the program. Rosemount and Apple Valley School districts are local Cisco Academies so students that take classes during the school day for credit can articulate those credits to the IHCC degree program. These courses are coordinated and taught through the the college's Continuing Education Customized Training division. Information about the high school academies can be found at:

--K-12 including "U Tech" at Burnsville Junior High School (for middle-school students). Information about "U Tech" can be found at:

Inver Hills Community College faculty have participated in curriculum development in collaboration with the following institutions:

--Metropolitan State University (IP Telephony, Information Security, Computer Forensics)

--Minneapolis Community and Technical College (IP Telephony, Information Security, Computer Forensics)

--St. Cloud State University (online modules in development; information about this grant may be found at:)

--Minnesota State Univeristy, Mankato (online modules in development; information about this grant may be found at:)

b. Shared Faculty (e.g., Faculty on curriculum development committee for more than one institution)

Point Value: Up to 5 points

SUBMISSION:

Inver Hills Community College faculty serve on curriculum development committees with faculty from the following institutions:

--St. Cloud State University (collaboration supported by a grant from the Minnesota State College and Universities Center of Excellence, Advance IT Minnesota)

--Minnesota State University, Mankato (collaboration supported by a grant from the Minnesota State College and Universities Center of Excellence, Advance IT Minnesota)

Information about this collaborative effort may be found at:

Inver Hills has partnered on two previous NSF grants: a regional center for network technology and security awarded to Moraine Valley Community College in Illinois in 2002 and a network security curriculum development grant with the same lead institution in 2005. These grants, and membership in CSSIA, have strengthened the college's Network Technology and Security program and were instrumental in the college's becoming a partner in MnSCU's Center of Excellence for Information Assurance (Advance IT Minnesota). More information about this partnership can be found at:

<http://cae2y.morainevalley.edu/partnerships.htm>.

Inver Hills Community College faculty serve on advisory committees for network technology and security programs at the University of Wisconsin-Stout.

c. Use of distance education technology and techniques to deliver IA courses. (Distance education includes live/delayed broadcasts, videotapes/CDs, lectures, and web-based IA courses.)

Point Value: Up to 5 points

SUBMISSION:

Inver Hills Community College is a leader among Minnesota State College and University (MNSCU) institutions in online delivery. Approximately 25% of college offerings are online. The college has been accredited through the Higher Learning Commission to deliver all courses and programs online and currently offers 28 degrees and certificates online (see:

http://www.hlcommission.org/component/option,com_directory/Action,ShowBasic/Itemid,184/instdid,1793/lang,en/).

Network security courses are delivered in several formats that effectively utilize distance technologies and allow students to access Cisco Academy materials online and to access coursework remotely through a course management system (Desire2Learn). Courses have also been delivered via WebEx.

Because the college is a Cisco Academy, many of the courses use Cisco supported materials. These online materials allow students to simulate labs and to access those labs remotely.

All face-to-face classes are supplemented with Desire2Learn (D2L) course shells, which allow students to access syllabi, class announcements, discussion forums, online study groups, and grades online. Faculty also provide access to PowerPoint slides and other lecture materials, links to supplemental resources, and class assignments.

Virtualization (VM Ware) allows students to create virtual networks and experiment with network risks and threats to network security without jeopardizing the college's network. Packet Tracer is used in all Cisco courses to allow students to virtually experiment with routing, switching, and troubleshooting networks. Packet Tracer also allows student to simulate networks from remote locations and from home.

Faculty will be developing completely online modules through a collaborative grant with Saint Cloud State University and Minnesota State University, Mankato. Information about this grant may be found at:

For Fall 2011, the following classes will be offered in hybrid format (online lecture and face-to-face labs):

CNT 2520.01 Network Routers and Routing Fundamentals 3cr 8/23/2011-10/19/2011

CNT 2530.01 Switching Fundamentals and Intermediate Routing 3cr 10/25/2011-12/14/2011

For Spring 2012, the following classes will be offered fully online:

CNT 2189.01 Internship Information Technology 2-4cr 1/09/2012-5/9/2012

CNT 2311.01 Administering Linux Operating Systems 3cr 1/9/2012-5/9/2012

For Spring 2012, the following classes will be offered in hybrid format (online lecture and face-to-face labs):

CNT 2300.01 PC Hardware and Software (A+) 3cr 1/12/2012-5/3/2012

CNT 2510.01 Networking Essentials 3cr 1/10/2012-5/3/2012

CNT 2540.01 Wide Area Network Technologies 3cr 1/09/2012-3/02/2012

The college continues to explore new distance technologies and faculty are provided with access to Camtasia, Turnitin, and other software that enhance teaching and learning. Training in online and distance technologies is provided by an Instructional Designer. For information about distance education training opportunities for faculty, please see <http://invernet/Lists/InserviceTraining/calendar.aspx>.

Faculty are encouraged to take advantage of the college's Online Peer Review process which was built upon the Quality Matters foundation. This process provides mentoring and design criteria to help ensure that online courses meet the rigor of similar face-to-face offerings and use the power and resources of the Internet as tools for learning. The Peer Review rubric for online development is available at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={6ECAFF21-355E-47E0-9996-2318EBE7FE9A}. Inver Hills faculty have recently been trained in Quality Matters and the Online Peer Review process will be transitioned to Quality Matters within the next few years.

d. Evidence the program is providing students with access to IA practitioners (Example: guest lecturers working in IA industry, government, faculty exchange program with industry and/or government, etc.)

Point Value: Up to 5 points

SUBMISSION:

All evening faculty in the program at Inver Hills Community College are IA practitioners (at companies such as General Mills, Cisco Systems) or work as independent consultants in network security. Guest lecturers have included FBI internet security specialists and engineers from General Dynamics.

The Advisory Committee for the Network Technology and Security programs include representatives from area businesses, including Blue Cross Blue Shield, Cisco Systems, St. Paul Public Schools, Delta Airlines, 3KeyLogic, Frontier Communications, Medtronic, Ecolab, State of Minnesota Office of Enterprise Technology and the Minnesota State Patrol. These business representatives provide internships for students and are active in curriculum evaluation and development.

The college's affiliation with the Center of Excellence, Advance IT Minnesota, allows student access to workshops and conferences, including Secure 360, a conference showcasing network security and careers in network security. For information about this conference, please see: <http://www.advanceitmn.org/pages/we-support>. Inver Hills Community College is committed to IT networking and one of the ways it encourages this networking is through Advance IT Minnesota alumni events. Inver Hills Community College will host an IT Alumni event in Spring 2011 (details are not yet available). For information about Advance IT Minnesota alumni events, please see: <http://www.advanceitmn.org/pages/twin-cities-it-alumni-association-tcitaa>.

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2. IA Student Development: The program provides development opportunities for students that lead to a two year associate's degree or a certificate in an IA discipline.

Overall Point Value: 14 minimum/28 maximum

a. Evidence of IA degrees/areas of study/track or certificates (For example: List of IA Associates degrees and/or certificates in IA curriculum as listed on the institution's website or catalog, list of all IA program courses with their descriptions).

Point Value: 5 points

SUBMISSION:

Inver Hills Community colleges offers the following degrees and certificates with information assurance emphasis:

A.A.S. Network Technology and Security

(<http://www.inverhills.edu/departments/cnt/outcomes.aspx#AAS>)

--Information assurance courses that are required for this associate degree include:

---CNT 2820 Information Systems Security Fundamentals

---CNT 2831 Implementing Cisco IOA Network Security (CCNA Security)

Certificate in Network Security

(<http://www.inverhills.edu/departments/cnt/outcomes.aspx#AAS>)

--Information assurance courses that are required for this associate degree include:

---CNT 2820 Information Systems Security Fundamentals

---CNT 2831 Implementing Cisco IOA Network Security (CCNA Security)

---CNT 2825 Information Systems Security Advanced

---CNT 2830 Network Security Design

---CNT 2832 Advanced Network Security

Certificate in Advanced Network Technology

(<http://www.inverhills.edu/departments/cnt/outcomes.aspx#AAS>)

--Information assurance courses that are required for this associate degree include:

---CNT 2820 Information Systems Security Fundamentals

Program courses and course descriptions are available at

<http://www.inverhills.edu/Departments/CNT/Courses.aspx> or at

<http://www.inverhills.cnss.project.mnscu.edu>.

b. Evidence of Copies of Articulation/Transfer agreements with 4 yr institutions offering a concentration or IA degrees/areas of study/track or certificates.

Point Value: 5 points

SUBMISSION:

Inver Hills Community College has the following current articulation agreements:

1) Metropolitan State University - Network Technology and Security with Security Emphasis

(http://www.mntransfer.org/educators/transfer/e_artagreements.php?numResults=25&archive=false&from_inst=9&from_prog=3947&to_inst=35&to_prog=6550&Search=Search)

2) University of Wisconsin-Stout - Information Technology Management

(<http://www.inverhills.edu/ProgramsAndMajors/Transfer/pdfs/CNT/aaNetTechSecUW-S.pdf>).

Inver Hills Community College continually seeks to provide pathways for students to complete the baccalaureate. Recently, the college entered into an articulation agreement with Capella University which accepts CNT courses in preparation for degrees in Network Technology or Information Assurance and Security. The umbrella articulation agreement may be accessed at:

<http://www.inverhills.edu/ProgramsAndMajors/Transfer/pdfs/Other/aaMultCapella.pdf>. The specific agreement relative to the Information Assurance and Security degree may be accessed at:

The specific agreement relative to the Network Technology degree may be accessed at:

As part of this agreement, Capella offered a \$500 scholarship to all faculty, alumni, and staff at Inver Hills Community College, that scholarship available through February 1, 2011.

Communications have begun with St. Cloud State University for articulation to the bachelors degree in Network Information Security Systems and with the University of Illinois at Springfield for articulation to the bachelor's degree in Computer Science, which includes IT Security and Information Assurance.

c. Articulation agreements with high schools to facilitate awareness and training for faculty/administration/students.

Point Value: 2 points per school / 6 pts maximum

SUBMISSION:

Inver Hills Community College has the following agreements with area high schools to facilitate awareness and training for high school students:

South St. Paul

St. Paul

Rosemount

Burnsville

School District 196 (Rosemount, Apple Valley, Eagan)

St. Paul School District students get high school credit for the classes. All students taking classes can get college credit in the two year degree if they successfully complete some of the classes in the program. Rosemount and Apple Valley School districts are local Cisco Academies so students that take classes during the school day for credit can articulate those credits to the IHCC degree program. The After School Academy is coordinated and taught through the college's Continuing Education Customized Training division, with financial support through the Center of Excellence, Advance IT Minnesota. Information about the After School Academy may be accessed at:

In addition, Inver Hills Community College has recently developed the "U Tech" at Burnsville Junior High School to facilitate awareness and training for middle school students. Information about the "U Tech" program may be accessed at:

Inver Hills Community College has been active in exploring technology pathways for students through Perkins funding. Network Security instructor, David Pickens, served on a task force for establishing a common industry-approved assessment for network technology programs. That assessment will be implemented in Spring 2011 in identified classes. More information about the Perkins career pathways project may be accessed at:
<http://www.cte.mnscu.edu/programs/index.html>.

As a Cisco Academy, the college provides Train the Trainer events for local members. Additionally, as an International Cisco Academy for Information Security, the college provides certification training to a diverse and global audience. Sample flyers for training events may be accessed at:

The college's Workforce Development Division (Continuing Education Customized Training) sponsors training in IT for high school faculty. The current offering in Technology Literacy may be accessed at:
<https://webproc.mnscu.edu/registration/search/detail.html?campusid=157&courseid=001052&yrtr=20115&rcid=0157&localrcid=0157&partnered=false&parent=search>.

The "Got IT" event last November, an event collaboratively sponsored by the college and others, included speakers and booths to help encourage students to learn more about information technology and security and to consider information technology as a career field. Inver Hills Community College Network Technology instructor, David Pickens was a speaker at this Got IT event.

To encourage underserved students and at risk students to consider information technology as a career field, Mr. Pickens volunteers every summer as a trainer and presenter at Genesys Works, a 501(c)(3) not-for-profit organization that enables inner-city high school students to break through barriers and discover through meaningful work experience that they can succeed as professionals in the corporate world. More information about Mr. Pickens' work with high school students is available on his blog:
<http://davidbpickens.wordpress.com> and his sabbatical abstract:
http://www.inverhills.sabbaticals.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={029F519A-56D0-4D74-9BD1-3B8CAA4A30B7}. More information about Genesys Works may be found at:
<http://www.genesysworks.org/>.

d. Participation in Cyber/IA competitions.

Point Value: 2 points per each / 6 pts maximum

SUBMISSION:

Inver Hills Community College has sent teams of students to compete in the Collegiate Cyber Defense Competition for the last three years, taking state honors in 2008, 2009, and 2010. In addition, Inver Hills faculty members have been instrumental in organizing the state competition and hosting the regional 2010 competition (Dale Henninger, 2009, 2010). Information about the last regional competition is available at:

<http://www.inverhills.edu/About/NewsAwards/2010/031110.aspx>.

In addition to the intercollegiate competitions, the Inver Hills CCDC team competed with engineers from General Dynamics in a mock cyber defense competition during National Engineering Week 2010 and won \$375 (out of \$500) for defending their networks.

The Army Reserve at Fort Snelling have informally competed with Inver Hills and high school students in Cyber War activities held in November and December 2010, and January 2011. For more information about this event, see the news article available at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={468AB5E1-56FD-49E3-893D-069B100AD023}.

Students also participated in the Net Riders competition in Fall 2009.

e. Courses containing "Hands-on" training or Lab training.

Point Value: 2 points per course / 6 pts maximum

SUBMISSION:

Every course in the CNT curriculum includes blended lecture and lab activities. All courses are scheduled in the CNT computer labs and hands-on learning is a component of most course descriptions and course outcomes. Virtualization is used in situations where networks may be exposed to risk; however, every effort is made to provide students with hands-on network security experience.

College assets include racks in each of the four CNT computer labs and specialized equipment for wireless and security in at least one of the computer labs. A half-time college lab assistant is available to assist faculty with lab set-ups, reimaging computers, and proctoring open labs for students. Open labs are available to students when a college employee is available to proctor those labs (approximately 20 hours per week).

Recent upgrades to the four computer network technology labs include:

--additional routers (1841s). These routers are the security package with a different IOS and more memory. This upgrade supports the CCNS Security curriculum.

--two new servers; one for VM Ware and one for Microsoft.

--upgraded memory in desktops and laptops to support a wider range of applications.

--added new laptops (25 total)

--wired all four classrooms together (3COM switches) so that moving large amounts of data may be done at the highest possible capabilities to and from any of the CNT classrooms.

The four CNT classrooms are equipped for specific hardware labs, including network security, IP telephony, advanced networking, and wireless, as well as foundational network technology.

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3. IA as multidisciplinary subject: The academic program demonstrates that IA is treated as a multidisciplinary subject with elements of IA knowledge incorporated into various disciplines.

Overall Point Value: 10 minimum/15 maximum

a. Evidence that IA is taught as modules in existing non-IA courses and that non-technical/non-IA students are being introduced to IA (For example: Non-technical/non-IA students are being introduced to IA concepts; e.g. business courses teaching Information Security modules, health courses – HIPAA regulations)

Point Value: 5 points

SUBMISSION:

The college's mission and goals include to "help students' understanding and effective use of technology in learning and work" (<http://www.inverhills.edu/about/index.aspx>). Faculty are encouraged to incorporate technology into teaching and learning and many programs include a requirement for information technology or an alternative requirement for information technology (Accounting, Building Inspection Technology, Contemporary Business, Business Certificates in Marketing and Project Management, Computer Programmer, Computer Science, Construction Management, Environmental Science, Legal Administrative Assistant, Microcomputer Support Specialist, Network Technology and Security, Paralegal, Teacher Education).

Information security is incorporated into a multitude of disciplines including computer

science, health, business, and project management. Many of these programs require CS 1100 Introduction to Computers.

CS 1100 Introduction to Computers 3 cr

Hands on experience using Windows, word processing, spreadsheets, the Internet and data base software. An understanding of the principles underlying computer hardware and software, telecommunications, computers in business, ethics, social issues, computer security, and future trends.

In the computer science program, security is incorporated into almost all courses, beginning with CS 1100 (see above course description), which is required for the Computer Programmer AAS and the Computer Science AS degrees.

HIPAA is a component of health courses for nursing and emergency medical services whenever legal issues is a learning outcome. Those courses include:

- EMS 1111 Introduction to Emergency Medical Services
- HCCC 1060 Legal Issues in Healthcare
- HCCC 1070 Healthcare Ethics
- NURS 1020 The Registered Nurse Role in Health and Wellness

In addition, HIPAA is covered in the program brochure for nursing and in all clinical courses.

In nursing, faculty have used the Student Academic Achievement Program at the college to incorporate technology and information security into the curriculum. An excerpt from the 2008 report on the Student Academic Achievement Program follows:

"Nursing: Goal: Assist students in achieving academic success in computerized communication and documentation. Students met identified outcomes and achieved at least 78% competence in the area of patient documentation through use of technology."

For the Contemporary Business AS and AAS, business certificates, and project management certificate, information security is included in the following classes:

- BUS 2225 e-Marketing Fundamentals
- BUS 2320 Project Management and Planning Skills
- BUS 1131 Legal Environment of Business
- BUS 2130 Employment Law for Business
- CIS 1160 Project Management Software

Program and course descriptions may be accessed at:

<http://www.inverhills.edu/ProgramsAndMajors/index.aspx>.

b. Evidence IA programs (certificate and/or degree programs) require non-technical courses of study; e.g. ethics, policy, and business.

Point Value: 5 points

SUBMISSION:

The AAS in Network Technology and Security includes requirements to complete one of the following:

- BUS 1119 Human Relations in Business
- BUS 2310 Achieving Customer Service, or
- BUS 2320 Project Management and Planning Skills.

Student are also required to complete 16 credits of liberal arts curriculum, including:

- ENG 1108 Writing and Research Skills (4 credits)
- 3 credits of communication
- 3 credits of a mathematics or science
- 3 credits of social science, and
- 3 credits of humanities/fine arts/literature.

Program and course descriptions and requirements for the Minnesota Transfer Curriculum (liberal arts curriculum) may be accessed at:

<http://www.inverhills.edu/ProgramsAndMajors/index.aspx>.

c. Availability of non-credit/credit professional development courses in IA (e.g. First responders, K-12

teachers)

Point Value: 5 points

SUBMISSION:

The Workforce Development Division (Continuing Education Customized Training) of the college runs continuing education/customized training courses in information assurance as non-credit or credit coursework.

Upcoming offerings with specific information security components include:

- CCNA Security (January-May, 2011)
- Introduction to Computers (January-May, 2011)

An offering which provides training for K-12 teachers in information technology and security is:

- Technology Literacy - a High School Computer Technology Academy offering (January-March, 2011)

More information about the offerings of the Workforce Development Division may be accessed at: <http://www.inverhills.edu/cpwd/IT.aspx>.

Other information and network technology non-credit courses for spring include:

- CompTIA A+ Certification - IT Essentials: PC Hardware and Software
- Linux Certification
- Cisco I - CallManager Express
- Cisco II - Cisco Unified Communications Manager
- CCNA 1 - Network Fundamentals
- CCNA 2 - Routing Protocols & Concepts
- CCNA Fast Track Program
- CCNP Switch: Implementing Cisco IP Switching
- CCNP Route: Implementing Cisco IP Routing
- CCNP TShoot: Maintaining and Troubleshooting Cisco IP Networks

In addition, First Responder courses and business courses are offered with components of information assurance included. More information about these offerings is available at: <http://www.inverhills.edu/cpwd/IT.aspx>.

Professional development opportunities are available to all faculty. Faculty attend events sponsored by the Center of Excellence, Advance IT Minnesota including Secure 360 and participate in the Steering Committees for the functions of the Center. Last spring, Mr. David Pickens, in collaboration with the Center of Excellence, Advance IT Minnesota, wrote a proposal and was awarded a grant to conduct a CTL workshop entitled "Information Assurance and Security in IT Disciplines: Our Future Together." The workshop was held in April, 2010. Almost every network technology program in the state was represented, including faculty from Inver Hills Community College.

Examples of professional development engaged in by Inver Hills Community College faculty include attendance at the Cisco Network Academy Conference in Orlando, The Secure 360 Conference in the Twin Cities (attended by David Pickens and Benjamin Franske), the Midwest InfaGard SuperConference in the Twin Cities, CCNA Security Training in August 2010, the regular Minnesota Cyber Security Skills Consortium meetings last held in November 2010 and planned again for February 2011, and the CISSI Conference in Seattle (attended by David Pickens).

All MnSCU employees are required to complete online security training. Information about that training is available at: http://www.its.mnscu.edu/projects/archived/isp_train_camp_techstaff/index.html.

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4. IA Outreach: The academic program must demonstrate a strong collaboration with business, industry, government, and the local community.

Overall Point Value: 4 minimum/10 maximum

a. Evidence provided in the form of a Strategic Plan and/or general IA Awareness Program description (example: flyers, letters from sponsors, etc), and/or workshop accomplishments. (For example: sponsorship of workshops for K-12, senior citizen groups, community colleges, technical schools, state homeland security, first responders, industry, etc.)

Point Value: Up to 10 points

SUBMISSION:

The Chancellor of MnSCU is charged with developing a strategic plan for IT, which includes security. All colleges are required to develop and implement a plan for information security (MnSCU Board Policy 5.13, Part II). Please see the Board Policy at <http://www.mnscu.edu/board/policy/513.html>. The Inver Hills policy is shared through SharePoint (intranet) and the college website. Please see the Inver Hills policy at: <http://www.inverhills.edu/StudentResources/CollegePolicies/pdfs/CurrentPolicies/CampusPolicies/AccUseofTech.pdf>. As mentioned previously, all MnSCU employees are required to complete online security training.

In Spring 2010, the college, in collaboration with the MnSCU Center for Teaching and Learning and the MnSCU Center of Excellence, Advance IT Minnesota, sponsored a statewide discipline workshop for community college faculty entitled "Information Assurance and Security in IT Disciplines: Our Future Together." Faculty work with community groups, including Genesys Works, and career fairs, including "Got IT," connecting with high school and inner-city youth to discover meaningful work experiences in information technology and security.

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5. IA Faculty: Faculty assigned specifically to teach and/or develop IA courses/curricula/modules.

Overall Point Value: 11 minimum/15 maximum

a. Identify by name faculty member with overall responsibility for the IA instructional program. Provide evidence, i.e. verification letter and/or job description.

Point Value: 5 points (required)

SUBMISSION:

Although all faculty incorporate elements of security into their courses, David Pickens, is the lead full-time instructor who has responsibility for the IA instructional program. Mr. Pickens researched cyber defense and information assurance associations and initiated work in preparing the college to achieve the designation of a Center of Academic Excellence in Information Assurance from the National Security Agency and Department of Homeland Security. He coaches the college's Collegiate Cyber Defense Competition Team in state and regional competitions (students won state championship for the third straight year) and in informal competitions (General Dynamics, February 2010, students won \$375; Army Reserve, November and December 2010, January 2011). Mr. Pickens attended the Cisco Network Academy Conference in Orlando, The Secure 360 Conference in the Twin Cities, the Midwest InfaGard SuperConference in the Twin Cities, and the CISSI Conference in Seattle. He has presented at numerous events for high school students (<http://davidbpickens.wordpress.com>).

A letter verifying this role may be accessed at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={FCE6E75B-5E25-4C2C-985C-8F9CC1D422C8}.

Mr. Pickens's CV may be accessed at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={5AB6DD6B-2944-42C4-B02E-880BC137091B}.

b. Identify by name additional IA faculty members teaching IA courses within the department that sponsors IA programs.

Point Value: 1 pt per name / up to 5 maximum

SUBMISSION:

Bruce Rohrich (CCIE, CISSP), CNT 2820 Implementing Cisco IOS Network Security (CCNA Security)

Bruce Rohrich (CCIE, CISSP), CNT 2832 Advanced Network Security

Dale Henninger, CNT 2820 Implementing Cisco IOS Network Security (CCNA Security)

Dale Henninger, CNT 2825 Information Systems Security Advanced

Benjamin Franske (CCNP, CCDP, CCNA, CCDA, A+, MCP, CCAI), CNT 2831 Implementing Cisco IOS Network Security (CCNA Security)

Benjamin Franske (CCNP, CCDP, CCNA, CCDA, A+, MCP, CCAI), CNT 2820 Information Systems Security Fundamentals

c. Provide evidence in the form of curriculum vitae supporting the faculty member's qualifications to teach IA. At least one IA faculty member will be expected to be professionally certified with at least one of the IA certifications listed under DOD Directive 8570, such as CISSP, CPP, CISA, CISM, GIAC, etc. or a minimum of 9 hrs of graduate coursework and/or appropriate experience in a related field could be considered in lieu of a professional certification.

Note: Can be same individual as 5a.

CISSP: Certified Information System Security Professional

CPP: Certified Protection Professional

CISA: Certified Information Systems Auditor

CISM: Certified Information System Security Manager

GIAC: Global Information Assurance Certification

Point Value: 5 points (required)

SUBMISSION:

David Pickens has the following certifications: CCNA, MCSA, MCDST, MCITP, Security+, Network+, A+, Server+, MCTS, MCP, CCAI

Mr. Pickens CV may be accessed at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={5AB6DD6B-2944-42C4-B02E-880BC137091B}.

Benjamin Franske has the following certifications: CCNP, CCDP, CCNA, CCDA, A+, MCP, CCAI, State Power Limited Technician License

Dr. Franske's CV may be accessed at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={E04B3F0A-36BE-4220-8070-84501AA2090E}

Mr. John Hoffoss has the following certifications: CISSP, GIAC

Mr. Hoffoss's CV may be accessed at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={54C160E6-BF4F-4612-89D7-56CC133585F2}

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6. Practice of IA encouraged throughout the Institution: The academic program demonstrates how the institution encourages the practice of IA, not merely that IA is taught.

Overall Point Value: 8 pts minimum/20 maximum

a. Provide a link to the institution IA security plan and/or policies

Point Value: Up to 5 points

SUBMISSION:

The IA security plan for MnSCU is available at:

<http://www.its.mnscu.edu/security/policies-procedures-guidelines/index.html>.

The college's information technology and security policy is available at:

<http://www.inverhills.edu/StudentResources/CollegePolicies/pdfs/CurrentPolicies/CampusPolicies/AccUseofTech.pdf>.

b. Institution designated Information System Security Officer or equivalent. Provide name, position and job description for person or persons responsible for information security.

Point Value: 5 points

SUBMISSION:

Mark Peterson

Director of Academic Technology and Computing Services/CIO

The position description was updated in 2006 and has always included security, although security is not specifically identified as a position purpose. The position description will be updated again in 2011 to incorporate information security as an integral component of the position.

Position Purpose: This position exists to provide leadership and technical support for the college's broad strategy to utilize and extend computer technology across disciplines and departments to achieve the following goals:

- Enhance student understanding and skills in all disciplines
- Promote student understanding and skills in the utilization of computing technology
- Broaden access to learning opportunities and student services
- Increase access to internal and external information resources
- Improve overall college operations and decision-making

The position description may be accessed at:

http://www.inverhills.cnss.project.mnscu.edu/index.asp?Type=B_BASIC&SEC={33E7E655-3A6B-4C4E-A4F9-E88DFC01ECD2}&DE={7DD084B7-B508-4401-9EE1-DD30583C99B6}.

c. Provide evidence of the implementation of the institution IA security plan to encourage IA awareness throughout the campus. (Example: Students and faculty/staff are required to take computer based training or on-line tutorials; a security banner statement present on institution computers; security related help screens are available; institution-wide seminars are held on the importance of IA, etc- 2pts awarded per item)

Point Value: 2 minimum / 10 maximum

SUBMISSION:

All faculty and staff are required to complete online training in information security and all new employees are provided with information about that requirement in new employee orientation. That training program ("Public Jobs Private Data") is available at: http://www.its.mnscu.edu/projects/archived/isp_train_camp_techstaff/index.html. A confidential database is available to all supervisors to ensure that employees have completed this training.

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Total MINIMUM Point Requirement: 57

Total MAXIMUM Points Available: 108

MINIMUM POINTS REQUIRED TO QUALIFY AS AN IA CENTER OF ACADEMIC EXCELLENCE: 57

Minimum points must be met for each of the six criteria.