Information Technology Advisory Meeting

Spring 2013 Agenda – Update 01

**Agenda for Spring 2013**

* Welcome – Chair
* Introductions – Chair
* Agenda Review and Approval – Chair
  + This is an opportunity for the group to changes this meeting’s agenda
* Last Meeting Minutes Review and Approval
  + This is an opportunity for the group to review the last meeting discussion.
* Computer Program – Chair Introduction
  + Credit count change and curriculum revision – Deb
    - All AAS programs are required to be no more than 60 credits in length by 2014 unless the program has a waiver.
  + Informatics addition – Deb
  + COMPUTER PROGRAMMING – AAS DEGREE - Current
    - First Semester
      * Web Engineering I CPTR1170
      * Visual Basic Programming I CPTR1110
      * Microcomputer Database CPTR1106
      * Intro to Programming and Scripting CPTR1001
      * Information Systems CPTR1138
      * Gen Ed (MN TX category 4)
    - Second Semester
      * COBOL Programming CPTR1115
      * Visual Basic Programming II (\* CPTR1110) CPTR1112
      * SQL (\* CPTR106) CPTR2230
      * Java Programming CPTR2242
      * \*\*\*College Writing 1 ENGL1110
    - Third Semester
      * RPG Programming CPTR1129
      * Computer Science I CSCI1121
      * Mobile Application Development CPTR2200(\*CPTR1170 or INTD1108)
      * Intro to Public Speaking SPCH1114
      * \*\*\*General Education Elective
    - Fourth Semester
      * Database Integration CPTR2238 (\*CPTR2230 and CPTR2242)
      * Web Integration CPTR2400 (\*CPTR1170 \*\*CPTR2230 and CPTR2242)
      * ###Technical Electives (10 credits)
      * \*\*\*General Education Elective

\* Pre-requisite

\*\*Co-requisite

* + 70 total credits
  + MnSCU Procedure 3.36.1
    - An associate in applied science degree is awarded upon completion of a 60 credit academic program in a named field of study in scientific, technological or other professional fields.  
        
      An associate in applied science degree prepares students for employment in an occupation or range of occupations. An associate in applied science degree may also be accepted in transfer to a related baccalaureate program.  
        
      An associate in applied science degree requires a minimum of 15 general education credits selected from at least three of the ten goal areas of the Minnesota Transfer Curriculum. At least 30 credits shall be in the academic program's occupational or technical field of preparation.  
        
      An associate in applied science degree may have one or more emphases of at least 9 credits each when there are at least 30 credits in the major that are common to the emphases.  
        
      An associate in applied science degree program may be individualized according to the standards outlined in Part 5. Subpart C, to provide a student an opportunity to design an academic program to meet specific occupational goals that cannot be met by current program offerings.  
        
      At least 20 credits in an associate in applied science shall be taught by the faculty recommending the award. This requirement may be decreased upon recommendation of the faculty and approval by the president of the college or university.  
        
      A waiver may be granted to exceed a length of 60 credits when (1) the waiver criteria in Subpart C are met and (2) an articulation agreement, where applicable, specifies the transfer of a greater number of credits.
  + Computer Programming – AAS Proposed
    - * First Semester
      * Visual Basic Programming I CPTR1110
      * Microcomputer Database CPTR1106
      * Intro to Programming and Scripting CPTR1001
      * Information Systems CPTR1138
      * \*\*\*Gen Ed (MN TX category 4)
    - Second Semester
      * Web Engineering I CPTR1170
      * COBOL Programming CPTR1115
      * SQL (\* CPTR106) CPTR2230
      * Java Programming CPTR2242
      * \*\*\*Informatics CSCI1110
    - Third Semester
      * RPG Programming CPTR1129
      * Computer Science I CSCI1121
      * Mobile Application Development CPTR2000 (\*CPTR1170 or INTD1108)
      * \*\*\*College Writing ENGL1101
    - Fourth Semester
      * Database Integration CPTR2238 (\*CPTR2230 and CPTR2242)
      * Web Integration CPTR2400 (\*CPTR1170 \*\*CPTR2230 and CPTR2242)
      * \*\*\*Intro to Public Speaking COMM1120
      * ###Technical Electives 3
      * \*\*\*MnTC General Education Elective 3

\* Pre-requisite

\*\*Co-requisite

* + - 11/8/2012 60 total credits
* Information Technology – AS – Chair Introduction
  + Curriculum change - Tim
    - MSUM Computer Information Technology changed curriculum
      * The major change is two semesters of Python
      * This proposal has one semester of Python (Intro to Programming) with the second semester at MSUM

Proposed Curriculum with Articulation

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| MSCTC | MSCTC | MSCTC | change | MSUM | MSUM | MSUM |
| Course# | Credits | Title |  | Course# | Credits | Title |
| CPTR1106 | 3 | Database |  | CSIS103 | 3 | Comp. Concepts & Apps |
| CPTR1108 | 3 | Cisco 1 |  |  |  |  |
| CPTR1122 | 3 | Maintenance |  | CSIS 221 | 3 | Foundations of Computing |
| CPTR1138 | 3 | Information Systems |  | CSIS 140 | 4 | Intro to IS & Internet Tech |
| CPTR1148 | 3 | Micro OS |  |  |  |  |
| CPTR1170 | 3 | Web Engineering 1 |  |  |  |  |
| CPTR2224 | 3 | Linux 1 |  | CSIS elec | 3 |  |
| CPTR2236 | 3 | Network Security |  | CSIS elec | 3 |  |
| CPTR2242 | 3 | Intro to Prog and Script | yes | CSIS152 | 3 | Intro to Comp & Prog 1 |
| CPTR2272 | 3 | Network OS |  |  |  |  |
| ENGL101 | 3 | College Writing 1 |  |  |  |  |
| PSYC1200 | 3 | General Psychology |  |  |  |  |
| HUM2236 | 3 | Tech in Humanities |  |  |  |  |
| COM1150 | 3 | Introduction to Speech | yes |  |  |  |
| GenEd |  |  |  |  |  |  |
| GenEd |  |  |  |  |  |  |
| GenEd |  |  |  |  |  |  |
| GenEd |  |  |  |  |  |  |
| GenEd |  |  |  |  |  |  |
| GenEd |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

Total Credit Count for the IT AS degree – 60 credits: in field – 30, General Education - 30

|  |  |  |
| --- | --- | --- |
| MSUM | MSUM | MSUM |
| Course# | Credits | Title |
| CSIS153 | 3 | Introduction to Comp & Prog 2 |
| CSIS304 | 3 | Databases |
| CSIS311 | 3 | Server-Side Scripting |
| CSIS341 | 3 | System and Network Administration |
| CSIS349 | 3 | Networks and Data Communications |
| CSIS360 | 3 | Linux Programming and Development Tools |
| CSIS440 | 3 | Computer Networks Software Concepts |
| CSIS441 | 3 | Network Security |
|  | 3 | Restricted Electives |
|  | 6 | Unrestricted Electives |

MSUM years 3 & 4, 33 CSIS credits, 4 credits in related field, and 12 LASC credits.

MSCTC Program Sequence for Information Technology – AS

Semester 1 Recommendation

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CPTR 1138 | Information Systems |  |  |
| CPTR 1122 | Microcomputer Maintenance |  |  |
| CPTR 1170 | Web Engineering 1 |  |  |
| COMM 1120 | Intro to Public Speaking |  | Required, not optional |
|  | MNTC elective |  | Recommend MnTC Goal Area 7, 9, or 10 course |
|  |  |  |  |

Semester 2 Recommendation

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CPTR 1108 | Cisco 1 |  |  |
| CPTR 1106 | Microcomputer Database |  |  |
| CPTR 1148 | Microcomputer Operating System |  |  |
| ENGL 1101 | College Writing 1  (MNTC Goal Area 1) |  |  |
|  | MNTC elective |  | Recommend MnTC Goal Area 4 course |
|  |  |  |  |

Semester 3 Recommendation

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CPTR 2224 | Linux 1 |  |  |
| CPTR 2272 | Network Operating System |  |  |
| PSYC 1200 | General Psychology  (MNTC Goal Areas 5 and 9) |  |  |
|  | MNTC elective |  | Recommend MnTC Goal Area 3 course |
|  | MNTC elective |  | Recommend MnTC Goal Area 5 course |
|  |  |  |  |

Semester 4 Recommendation

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CPTR 1001 | Intro Prog & Script |  | Old Java |
| CPTR 2236 | Network Security |  |  |
| HUM 2236 | Technology in the Humanities  (MNTC Goal Areas 2, 6, and 8) |  |  |
|  | MNTC elective |  | Recommend MnTC Goal Area 3 course |
|  | MNTC elective |  | Recommend MnTC Goal Area 5 course |
|  |  |  |  |

MSUM Program Sequence for MSCTC Information Technology – AS

Semester 5 Recommendations

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CSIS153 | Intro to Comp & Prog 2 | 3 |  |
| CSIS311/360 | Server-Side Scripting / Linux Programming | 3 |  |
| CSIS304 | Database | 3 |  |
| LASC | General Education | 3 |  |
| LASC | General Education | 3 |  |

Semester 6 Recommendations

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CSIS341/440/441 | System & Network Admin / Computer Net Software Concepts / Net Security | 3 |  |
| Elective |  | 3 |  |
| CSIS311/360 | Server-Side Scripting / Linux Programming | 3 |  |
| LASC | General Education | 3 |  |
| Elective |  | 3 |  |
|  |  |  |  |

Semester 7 Recommendations

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CSIS341/440/441 | System & Network Admin / Computer Net Software Concepts / Net Security | 3 |  |
| LASC | General Education | 3 |  |
| ENGL387 |  | 3 |  |
| Elective |  | 3 |  |
| Elective |  | 3 |  |
|  |  |  |  |

Semester 8 Recommendations

|  |  |  |  |
| --- | --- | --- | --- |
| **Course** | **Course Title** | **Credits** | **Completed/Notes** |
|  |  |  |  |
| CSIS440/441 | Computer Net Software Concepts / Net Security | 3 |  |
| Capstone |  | 3 |  |
| Elective |  | 3 |  |
| Elective |  | 3 |  |
| Elective |  | 3 |  |
|  |  |  |  |

MSUM Electives

CSIS 101 [Introduction to the Internet](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00002320) (2)

CSIS 115 [Introduction to MacOS X](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010405) (1)

CSIS 212 [Client-Side Scripting](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010237) (3)

CSIS 252 [Introduction to Computers and Programming II](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00151022) (3)

CSIS 260 [Current Programming Languages](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00008878) (3)

CSIS 290 [Special Topics](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00002336) (1-3)

CSIS 316 [Ethics in the Information Age](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010060) (3)

CSIS 320 [Architecture](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010452) (4)

CSIS 335 [Graphical User Interface Programming](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00008870) (3)

CSIS 336 [C#.Net Programming](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010052) (3)

CSIS 340 [Software Engineering](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00151023) (3)

CSIS 352 [Advanced Concepts in Programming](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00008879) (3)

CSIS 405 [E-Commerce Technology](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00009693) (3)

CSIS 430 [Operating Systems](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00008874) (4)

CSIS 433 [Design, Implementation and Support of Information Systems](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010231) (3)

CSIS 435 [Compilers](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00008875) (4)

CSIS 445 [Graphics](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00002445) (3)

CSIS 446 [Decision Support Systems](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00002319) (3)

CSIS 450 [Programming Languages](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00002446) (3)

CSIS 469 [Internship](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00009319) (1-12)

CSIS 485 [Senior Seminar](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00002448) (1)

CSIS 490 [Topics in Computer Science and Information Systems](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00010230) (1-3)

CSIS 497 [Undergraduate Research](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00009922) (1-3)

CMST 100 [Speech Communication](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00009603) (3)

ENGL 387 [Technical Report Writing](https://webproc.mnscu.edu/registration/rest/institutions/0072/campuses/072/terms/20135/curriculums/00000048) (4)

* Information Technology – AAS – Chair
  + MnSCU Procedure 3.36.1 - Tim
    - An associate in applied science degree prepares students for employment in an occupation or range of occupations. An associate in applied science degree may also be accepted in transfer to a related baccalaureate program.  
        
      An associate in applied science degree requires a minimum of 15 general education credits selected from at least three of the ten goal areas of the Minnesota Transfer Curriculum. At least 30 credits shall be in the academic program's occupational or technical field of preparation.  
        
      An associate in applied science degree may have one or more emphases of at least 9 credits each when there are at least 30 credits in the major that are common to the emphases.
  + Request to add Informatics as a required general education class
* Information Technology – Diploma - Chair
  + MnSCU Procedure 3.36.1 - Tim
    - A diploma is awarded upon completion of a 31 to 72 credit undergraduate academic program that prepares students for employment. A minimum of 24 credits shall be in occupational or technical courses.  
        
      A diploma may have one or more emphases of at least 9 credits when there are at least 30 credits in the major that are common to the emphases.
  + Request to replace Introduction to Computers with Informatics
* Discussion: Identify current and future processes and technologies - Chair
  + This is an opportunity for the members to bring current and emerging technologies that need attention. The faculty is very interested in hearing about technologies and/or processes that need attention.
* Computer Science/Information Technology degrees, diplomas, and certificates within M-State – Chair
  + Review M-State offerings – Dr. Brock or Gary Hertel

MSCTC / M-State Programs Information Technology Offerings

|  |  |  |  |
| --- | --- | --- | --- |
| **IT Offerings** |  |  |  |
|  |  |  |  |
| Cisco Networking | Detroit Lakes | Certificate | 12 |
| Cisco Networking | Wadena | Certificate | 12 |
| Computer and Network Technology | Wadena | AAS | 70 |
| Computer Network Security | Detroit Lakes | AAS | 67 |
| Computer Network Security | Detroit Lakes | Certificate | 12 |
| Computer Programming | Moorhead | AAS | 70 |
| Information Technology | Moorhead | AS | 60 |
| Information Technology | Moorhead | AAS | 60 |
| Information Technology | Moorhead | Diploma | 60 |
| IT Systems Support | Detroit Lakes | Certificate | 18 |
| IT Systems Support | Detroit Lakes | AAS | 68 |
| IT Systems Support | Detroit Lakes | Diploma | 34 |
| Management Information Systems | Fergus Falls | AS | 60 |
| Network Technology Administration | Virtual | AAS | 66 |
| Network Technology Administration | Wadena | Diploma | 33 |
| Voice and Video Over Internet Protocol | Wadena | Certificate | 15 |
| Web Development | Detroit Lakes | AAS | 63 |
| Web Development | Detroit Lakes | Certificate | 30 |
| Web Development | Detroit Lakes | Diploma | 62 |

* Fall Meeting agenda items – Chair
  + Any items that must/should be on the fall agenda - Tim

Advisory Member Functions (MSCTC Advisory Committee Guide)

* Identify specific subject areas of program inclusion
* Prioritizing the recommend subject areas
* Specifying appropriate program content level
* Reviewing program outcomes on an ongoing basis
* Assessment of program quality
* Specifying appropriate foundational skill standards for local needs
* Identifying general education and related technical skills needed by graduates
* Recommending equipment to support the program content

Minnesota State Community and Technical College Information Technology Faculty

Chris Goltz, Computer Programming Instructor, Chris.Goltz@minnesota.edu

Deb Flaskerud, Computer Programming Instructor, Deb.Flaskerud@minnesota.edu

Dave Hjalmquist, Computer Programming Instructor, Dave.Hjalmquist@minnesota.edu

Randy Johnson, Information Technology Instructor, Randall.Johnson@minnesota.edu

Tim Preuss, Information Technology Instructor, Tim.Preuss@minnesota.edu