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.

- o 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
  - o 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

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

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

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

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	

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	

Course	Course Title	Credits	Completed/Notes
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 (2)
- CSIS 115 Introduction to MacOS X (1)
- CSIS 212 Client-Side Scripting (3)
- CSIS 252 Introduction to Computers and Programming II (3)
- CSIS 260 Current Programming Languages (3)
- CSIS 290 Special Topics (1-3)
- CSIS 316 Ethics in the Information Age (3)
- CSIS 320 Architecture (4)
- CSIS 335 Graphical User Interface Programming (3)
- CSIS 336 C#.Net Programming (3)
- CSIS 340 Software Engineering (3)
- CSIS 352 Advanced Concepts in Programming (3)
- CSIS 405 E-Commerce Technology (3)
- CSIS 430 Operating Systems (4)
- CSIS 433 Design, Implementation and Support of Information Systems (3)
- CSIS 435 Compilers (4)
- CSIS 445 Graphics (3)
- CSIS 446 Decision Support Systems (3)
- CSIS 450 Programming Languages (3)
- CSIS 469 Internship (1-12)
- CSIS 485 Senior Seminar (1)
- CSIS 490 Topics in Computer Science and Information Systems (1-3)
- CSIS 497 Undergraduate Research (1-3)

CMST 100 Speech Communication (3)
ENGL 387 Technical Report Writing (4)

- Information Technology – AAS – Chair
  - MnSCU Procedure 3.36.1 - Tim
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occupation or range of occupations. An associate in applied science degree may also be accepted in transfer to a related baccalaureate program.

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- o Request to add Informatics as a required general education class
- Information Technology – Diploma - Chair
  - o 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.
  - o Request to replace Introduction to Computers with Informatics
- Discussion: Identify current and future processes and technologies - Chair
  - o 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
  - o 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