Century College Guide Sheet - AS Computer Science (02/26/2020)

Notes:

1. To use this guide sheet:
   - First start with the Two-Year Plan as a general guide.
   - Next examine *Course Recommendations* and *Equivalency Chart* for advice on electives and specific transfer courses.
   - Finally examine the Course Offering Schedule to determine when to take courses.
2. This guide may go through frequent revisions. Always first check at century.edu to make sure you have latest version.
3. **Always check with an Advisor or Counselor to confirm your course choices.**

Two-Year Plan

First Year	
Fall Semester	**Spring Semester**
• CSCI 1081 - Programming Fundamentals (4) • ENGL 1021 - Composition I (4) • MATH 1081 - Single Variable Calculus I Credits (5) Select one • COMM 1021 - Fundamentals of Public Speaking (3) • COMM 1031 - Interpersonal Communication (3) • COMM 1041 - Small Group Communication (3) • COMM 1051 - Intercultural Communication (3) Total Credits: 16	• CSCI 1082 - Object-Oriented Programming (4) • ENGL 1022 - Composition II (3) • Career/Occupational Elective Requirement (4) • MnTC Goal 3: Natural Sciences / Goal 4: Math/Logical Reasoning (3) Total Credits: 14

Second Year	
Fall Semester	**Spring Semester**
• CSCI 2082 - Data Structures and Algorithms (3) • Career/Occupational Elective Requirement Credits: 7 • MnTC Goal 5: History/Social/Behavioral Sciences (1st discipline) (3) • MnTC Goal 6: Humanities/Fine Arts (1st discipline) (3) Total Credits: 16	• CSCI 2014 - Discrete Structures of Computer Science (4) • CSCI 2016 - Introduction to the Organization of Computer Systems (4) • MnTC Goal 5: History/Social/Behavioral Sciences (2nd discipline) (3) • MnTC Goal 6: Humanities/Fine Arts (2nd discipline) (3) Total Credits: 14

Course Recommendations

Metropolitan State University (BS, Computer Science)
- CSCI 1020 is equivalent to MIS 100 which can be used to satisfy a GELS requirement.
- CSCI 2050, "Database Management Systems" is highly recommended as an elective.

University of Minnesota, TC (BS, Computer Science)
- **Students must take CSCI 2061**. It is required for a transfer equivalency.
- CSCI 2033, 2041, MATH 1082, Physics 1081 are recommended as Career Electives (requirements at U of M)
- MATH 1082, Physics 1081 are recommended as MNTC Goal 3 courses (requirements at U of M)

University of Minnesota, TC ([BA, Computer Science](#))
- **Students must take CSCI 2061**. It is required for a transfer equivalency.
- CSCI 2033, 2041, MATH 1082 are recommended as Career Electives (requirements at U of M)
- MATH 1082 is recommended as MNTC Goal 3 courses (requirement at U of M)

University of Wisconsin River Falls, ([Computer Science and Information Systems BS](#), CSCI Option)
- Students should first take CSCI 2005 as a Career Elective. It is a requirement.
- CSCI 2006, 2050 are recommended as other Career Electives. CSCI 2050 is a requirement at UWRF.

St. Cloud State, ([BS, Computer Science](#))
- MATH 1025, 1082, CSCI 2033, CSCI are recommended as Career Electives.
- MATH 1082 is recommended as an MNTC Goal 3 course (requirement at SCSU)
- PHYS 1041,1042 or 1081,1082 are recommended as MNTC Goal 3 (requirements at SCSU)

Minnesota State University, Mankato – please see the AS, Computer Information Systems guide sheet

University of Minnesota, Duluth ([Computer Science B.S.](#))
- CSCI 2033 highly recommended as elective or Goal 3. It satisfies requirement at UMD.
- Physics 1081, 1082 are recommended as MNTC Goal 3 courses.

University of Minnesota, Duluth ([Computer Science B.A.](#))
- CSCI 2050 is recommended as an elective.

Course Offering Schedule (courses in bold offered only 1 semester/year)

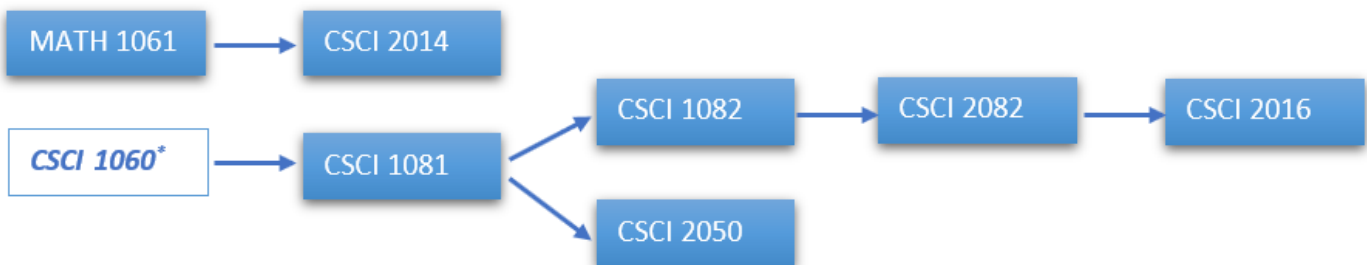| Fall Semester		Spring Semester		Summer Session
CSCI 1011	CSCI 1082	CSCI 1011	**CSCI 2014**	CSCI 1020
CSCI 1020	**CSCI 2005**	CSCI 1020	**CSCI 2016**	CSCI 1021
CSCI 1060	**CSCI 2061**	CSCI 1060	**CSCI 2050**	CSCI 1060
CSCI 1081	**CSCI 2082**	CSCI 1081	**CSCI 2091**	CSCI 1082
		CSCI 1082	**CSCI 2094**	**CSCI 2096**
		CSCI 2006	**CSCI 2211**	

Equivalency Chart (Note: Equivalencies change frequently! Always check with advisor before choosing course.)

Century	Metro State	U of M, TC	UWRF	U of M, D	SCSU	Mankato
CSCI 1011	Gen. Elective	Gen. Elective	Gen. Elective		Gen. Elective	Note 7
CSCI 1020	MIS 100	Gen. Elective	Note 6		CSCI 169	Note 7
CSCI 1021	Gen. Elective	Gen. Elective	Note 6		Gen. Elective	Note 7
CSCI 1058	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	Note 7
CSCI 1060	ICS 140	Gen. Elective	CSIS 151	Gen. Elective	CNA 267	Note 7
CSCI 1071	Gen. Elective	CSCI 1001	Gen. Elective	Gen. Elective	Gen. Elective	Note 7
CSCI 1081	ICS 140	Note 1	Note 3	CSCI 1511	CSCI 200	Note 7
CSCI 1082	ICS 141	CSCI 1103	Note 3	Note 5	CSCI 201	Note 7
CSCI 2005	ICS 225	Note 2	Note 4	Gen. Elective	Gen. Elective	Note 7
CSCI 2006	ICS 325	Note 2	Note 4	Gen. Elective	Gen. Elective	Note 7
CSCI 2014	MATH 215	CSCI 2011	MATH 236	CSCI 2531	MATH 271	Note 7
CSCI 2016	ICS 232	CSCI 2021	CSIS 355	CSCI 2521	CSCI 220	Note 7
CSCI 2033	Gen. Elective	CSCI 2033	MATH 256	MATH 3326	MATH 312	Note 7
CSCI 2041					Gen. Elective	Note 7
CSCI 2050	ICS 311	CSCI 4707	CSIS 333	Gen. Elective	SE 211	Note 7
CSCI 2061	ICS 140	Note 1	Gen. Elective	Gen. Elective	Gen. Elective	Note 7
CSCI 2082	ICS 240	CSCI 1933	CSIS 237	Note 5	CSCI 301	Note 7
CSCI 2091	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	Note 7
CSCI 2094	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	SE 276	Note 7
CSCI 2095	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	SE 276	Note 7
CSCI 2096	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	Gen. Elective	Note 7
CSCI 2211	DATA 211		CSIS 239	Gen. Elective	STAT 360	Note 7
CSCI 2795	Gen. Elective		Gen. Elective	Gen. Elective	Gen. Elective	Note 7

Notes:
1. CSCI 1081 + CSCI 2061 are equivalent to CSCI 1133
2. CSCI 2005 + CSCI 2006 are equivalent to CSCI 4131
3. CSCI1081 + CSCI1082 are equivalent to CSIS161, CSIS162, CSIS235
4. CSCI 2005 + CSCI 2006 are equivalent to CSIS 225, CSIS 325
5. CSCI 1082 + CSCI 2082 are equivalent to CS1521
6. CSCI 1020 + CSCI 1021 are equivalent to CSIS 215
7. Equivalencies with Mankato are undergoing revision. However, if students transfer to the Mankato Computer Application Development degree, all CSCI credits should transfer.

Prerequisite Chart (courses to the left are prerequisites for courses to the right)

MATH 1061 → CSCI 2014

CSCI 1060* → CSCI 1081 → CSCI 1082 → CSCI 2082 → CSCI 2016

CSCI 1081 → CSCI 2050

CSCI 1060 strongly recommended for students having little programming or computer knowledge.