



Information Technology Major Program

Gen Ed Effective Fall 2008

Major Effective Fall 2005

Undergraduate Requirements

| | |
|--|---|
| I. GENERAL EDUCATION REQUIREMENTS | 32-42 SEMESTER HOURS¹ |
| A. New Student Seminar | 1 |
| B. Contemporary Issues Courses | |
| Removed | |
| C. Communications | |
| 1. Writing (ENWR 105-106) | 6 |
| 2. Communications | 3 |
| D. Fine and Performing Arts | 3 |
| F Humanities | |
| 1. World Literature/General Humanities | 3 |
| 2. Philosophy/Religion | 3 |
| G. Computer Science (included in major) | 0 |
| H. Mathematics (included in major) | 0 |
| I. Natural/Physical Sciences with Laboratory (possibly included in Collateral Req.) | 0-4 |
| J. Physical Education | 1 |
| K. Social Science | |
| 1. American or European History | 3 |
| 2. Non-Western Cultural Perspectives | 3 |
| 3. Social Science Course (possibly included in Collateral Req.) | 0-3 |
| L. General Education Elective (possibly included in a Collateral Req.) | 0-3 |
| II. WORLD LANGUAGE AND CULTURES | 3-6 SEMESTER HOURS |
| Multicultural Awareness | 0-3 ² SEMESTER HOURS |
| III. COLLATERAL REQUIREMENTS | 8-9 SEMESTER HOURS³ |
| IV. MAJOR REQUIREMENTS | 48 SEMESTER HOURS |
| V. FREE ELECTIVE CREDITS | 12-29 SEMESTER HOURS |
| MINIMUM NEEDED FOR GRADUATION: | 120 SEMESTER HOURS |
| 1) General Education Req. 38 | a) New Student Seminar _____ 1 |

1 The actual number of credits required to complete the general education sequence and the collateral sequence will depend on the courses chosen to fulfill the collateral sequence, part II, A. of the major (see p. 3).

2 Students must also include a course that meets the Multicultural Awareness requirement among their General Education or Free Elective courses.

3 Students who select collateral sequence number three (Acct I, Acct II and Mgmt 231 see p.3; II A.) will still be required to complete separate general education requirements in Natural / Physical Science and category L electives.

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| <p>a) New Student Seminar 1</p> <p>c) Communication</p> <p style="padding-left: 20px;">Writing/Lit. 6</p> <p style="padding-left: 20px;">_____</p> <p style="padding-left: 20px;">_____</p> <p style="padding-left: 20px;">Comm _____ 3</p> <p>d) Fine & Perf Arts _____ 3</p> <p>f) Humanities</p> <p style="padding-left: 20px;">World Lit / Gen Hum _____ 3</p> <p style="padding-left: 20px;">Philosophy / Religion _____ 3</p> <p>g) Comp Sci (Satisfied by taking Found Comp Sci I)</p> <p>h) Mathematics (Satisfied by taking Calculus I)</p> <p>i) Natural / Physical Sciences _____ 4</p> <p>j) Physical Education _____ 1</p> <p>k) Social Science</p> <p style="padding-left: 20px;">Amer / Eur Hist _____ 3</p> <p style="padding-left: 20px;">Non-Western Cult _____ 3</p> <p style="padding-left: 20px;">Social _____ 3</p> <p>l) General Education Elective 3</p> <p style="padding-left: 20px;">_____</p> <p>2)</p> <p>World Languages 3 - 6</p> <p style="padding-left: 20px;">_____</p> <p style="padding-left: 20px;">_____</p> <p>Multicultural Awareness _____ 0- 3</p> | <p>3) Major and Collateral Courses 55 - 56</p> <p style="padding-left: 20px;">a) Required Mathematics Courses 10</p> <p style="padding-left: 40px;">MATH 116 Calculus A (4) ___</p> <p style="padding-left: 40px;">CMPT 285 Discrete Mathematics (3) ___</p> <p style="padding-left: 40px;">STAT 401 Appl. Stat. for Sciences (3) ___</p> <p style="padding-left: 20px;">b) Required Info. Sciences Courses 9</p> <p style="padding-left: 40px;">INFO 321 Info. and Media Management (3) ___</p> <p style="padding-left: 40px;">INFO 290 Management Info. Sys. (3) ___</p> <p style="padding-left: 40px;">INFO 470 Elec. Comm.: Bus. Value (3) ___</p> <p style="padding-left: 20px;">c) Required Information Technology Courses – Core 27</p> <p style="padding-left: 40px;">CSIT 110 Comp. Conc. for IT (3) ___</p> <p style="padding-left: 40px;">CMPT 183 Found Comp Sci I (3) ___</p> <p style="padding-left: 40px;">CMPT 184 Found Comp Sci II (3) ___</p> <p style="padding-left: 40px;">CMPT 250 Web Tools (3) ___</p> <p style="padding-left: 40px;">CMPT 320 Intranet and Internet Security(3) ___</p> <p style="padding-left: 40px;">CMPT 330 Network Technology (3) ___</p> <p style="padding-left: 40px;">CSIT 420 Comp. Hard. and OS Admin. (3) ___</p> <p style="padding-left: 40px;">CSIT 430 Databases for Internet Appl. (3) ___</p> <p style="padding-left: 40px;">CMPT 499 COOP Ed: Comp Sci (3) ___</p> <p style="padding-left: 20px;">d) Information Technology Electives² 9-10</p> <p style="padding-left: 40px;">3 Courses selected from the Electives (shown as E) on page 3.</p> <p style="padding-left: 40px;">_____</p> <p style="padding-left: 40px;">_____</p> <p style="padding-left: 40px;">_____</p> <p>4) Free Electives 16 - 20</p> <p style="padding-left: 40px;">Students are strongly encouraged to take Information Technology, Computer Science, and Information Sciences courses.</p> <p>Note: The following must also be fulfilled:</p> <p style="padding-left: 20px;">a) Basic Skills requirement⁴</p> <p style="padding-left: 20px;">_____</p> |
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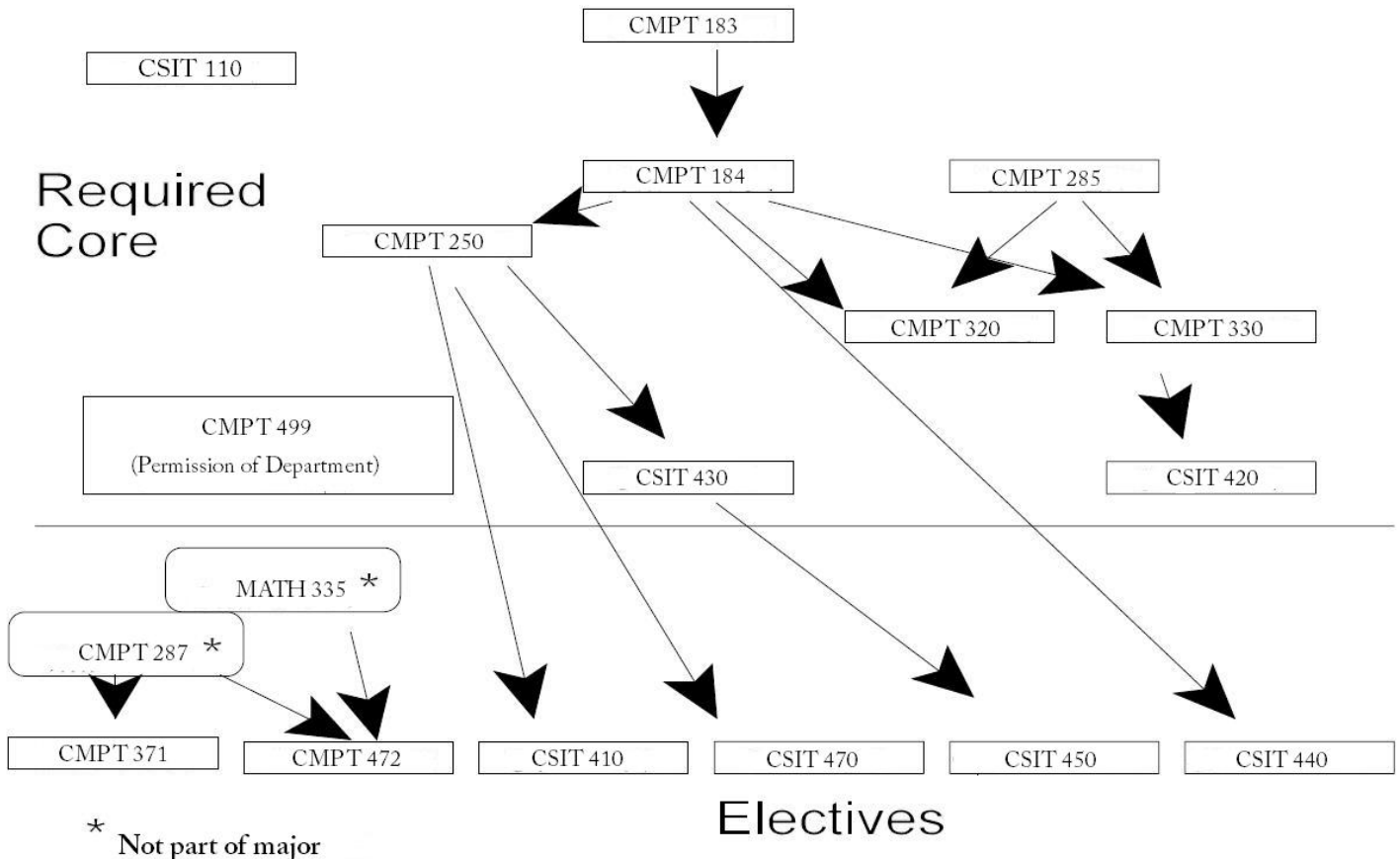
⁴ See MSU Undergraduate Catalog 2004-2006, p. 61, on how to fulfill this requirement

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C = Required Core E = Elective

PREREQUISITE STRUCTURE

C CSIT 110 Comp. Concepts for IT
C CMPT 183 Found Comp Sci I
C CMPT 184 Found Comp Sci II
C CMPT 250 Web Tools
C CMPT 320 Intranet and Internet Security
C CMPT 330 Network Technology
E CMPT 371 Software Analysis and Design – SE I (4cr)
E CSIT 410 Multimedia Computing

C CSIT 420 Comp. Hardware and OS Admin.
C CSIT 430 Databases for Internet Appl.
E CSIT 440 Princ. of Data Mining
E CSIT 450 Text Management
E CSIT 470 Advanced Web Development
E CMPT 472 Computer Graphics
C CMPT 499 COOP

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Course Requirements of Curriculum (year by year and term by term)

| Year; Semester or Quarter | Course (Department, Number, Title) | Category (credit hours) | | | | | |
|------------------------------|---|-------------------------|-------------------------|-------|---------------|-------------|-------|
| | | Info. Tech. Core | Info. Tech. Elec. | Math. | Info. Sci. | Gen. Ed. | Other |
| Freshman | CSIT 110 Comp. Conc. for IT | 3 | | | | | |
| Semester 1 | MATH 116 Calculus A | | | 4 | | | |
| | New Student Experience | | | | | 1 | |
| | Writing/Literature | | | | | 3 | |
| | General Education Course | | | | | 3 | |
| Freshman | CMPT 183 Foundations of Comp Sci I | 3 | | | | | |
| Semester 2 | CMPT 285 Discrete Math | | | 3 | | | |
| | Writing / Literature | | | | | 3 | |
| | General Education Course | | | | | 3 | |
| | General Education Course | | | | | 3 | |
| Sophomore Semester 1 | CMPT 184 Foundations of Computer Sci II | 3 | | | | | |
| | General Education Science Course | | | | | 4 | |
| | Communications Requirement | | | | | 3 | |
| | Contemporary Issues I | | | | | 3 | |
| | General Education Course | | | | | 3 | |
| Sophomore | CSIT 250 Web Tools | 3 | | | | | |
| Semester 2 | CSIT 320 Intranet and Internet Security | 3 | | | | | |
| | Contemporary Issues II | | | | | 3 | |
| | INFO 321 Info. and Media Management | | | | 3 | | |
| | General Education Course | | | | | 3 | |

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Course Requirements of Curriculum (Continued)

| Year; Semester or Quarter | Course (Department, Number, Title) | Category (credit hours) | | | | | |
|------------------------------|---------------------------------------|-------------------------|-------------------------|-------|---------------|-----------------|--------|
| | | Info. Tech. Core | Info. Tech. Elec. | Math. | Info. Sci. | Gen. Ed. | Other |
| Junior | CSIT 330 Network Technology | 3 | | | | | |
| Semester 1 | CSIT 430 Databases for Internet Appl. | 3 | | | | | |
| | STAT 401 Fund. of Modern Statistics | | | 3 | | | |
| | INFO 290 Management Info. Sys. | | | | 3 | | |
| | Contemporary Issues III | | | | | 3 | |
| Junior | CSIT 420 Comp. Hard. And OS | 3 | | | | | |
| Semester 2 | CSIT Elective | | 3 | | | | |
| | INFO 470 Elec. Comm.: Bus. Value | | | | 3 | | |
| | General Education | | | | | 3 | |
| | General Education | | | | | 3 | |
| | COOP (Usually in the Summer) | 3 | | | | | |
| Senior | CSIT Elective | | 3 | | | | |
| Semester 1 | General Education Courses | | | | | 7 | |
| | CSIT Elective | | 3-4 | | | | |
| | Free Elective | | | | | | 1-2 |
| Senior Semester 2 | Free Electives | | | | | | 12 |
| | PROGRAM TOTAL – 120 CREDITS | 27 | 9-10 | 10 | 9 | 51 ₅ | 13 -14 |

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Tentative Course Offerings

Required Core and Elective Courses

(2 year cycle)

C = Required Core E = Elective

| Fall 2010 | Fall 2011 |
|--|--|
| CSIT 420 CMPT 371 CSIT 470 CMPT 472 | CSIT 410 CSIT 420 CMPT 371 CSIT 470 |
| Spring 2011 | Spring 2012 |
| CMPT 320 CMPT 330 CSIT 430 CSIT 440 | CMPT 320 CMPT 330 CMPT 430 CSIT 450 |

- C CSIT 110 Comp. Concepts for IT
- C CMPT 183 Found Comp Sci I
- C CMPT 184 Found Comp Sci II
- C CMPT 250 Web Tools
- CMPT 285 Discrete Mathematics
- C CMPT 320 Intranet and Internet Security
- C CMPT 330 Network Technology
- E CMPT 371 Software Analysis and Design – SE I
- C CSIT 430 Databases for Internet Appl.
- E CSIT 410 Multimedia Computing
- C CSIT 420 Comp. Hardware and OS Admin.
- E CSIT 440 Princ. of Data Mining
- E CSIT 450 Text Management
- E CSIT 470 Advanced Web Development
- E CMPT 472 Computer Graphics
- C CMPT 499 COOP

CSIT 110, CMPT 183, 184, 250 and 285 will be offered every semester.