

B.S. in Computer Science
October 2010 · CS / COMPCBS

Name: _____ ID#: _____ Graduation Date: _____

Required courses for admission to the major (12 hours) Student must pass the following courses with a grade of C or better.

| Course # | Title | Cr | Prerequisites | Offered | Semester or Term | Grade |
|----------|-------------------------------|----|---------------|------------------------|------------------|-------|
| CIS 101 | Beginning Programming | 3 | None | F W Sp 1 st | | |
| CIS 202 | Object-Oriented Programming I | 3 | CIS 101 | F W 1 st | | |
| CIS 205 | Discrete Mathematics I | 3 | CIS 101 | W 1 st | | |
| IT 280/L | Data Communications / Lab | 3 | CIS 101 | F W Sp | | |

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

_____ student/date _____ Accepted into the major: CS Program Chair / date

Core Requirements (41 hours) classes marked "MO" are for admitted majors only

| Course # | Title | Cr | Prerequisites | MO | Offered | Semester or Term | Grade |
|----------|-------------------------------------|----|----------------------------|----|---------|------------------|-------|
| CS 203 | Object-Oriented Programming II | 3 | CIS 202 | | F Sp | | |
| CIS 206 | Discrete Mathematics II | 3 | CIS 202, CIS 205 | | F Sp | | |
| CS 210 | Computer Organization | 3 | CIS 101 | | W | | |
| CS 301 | Algorithms & Complexity | 3 | CS 203, CIS 206 | ♦ | W | | |
| CIS 305 | Systems Engineering I | 3 | CIS 205; Co/Prereq: IS 350 | ♦ | F W | | |
| CS 320 | Computational Theory | 3 | CS 203, CIS 206 | ♦ | W | | |
| IS 350 | Database Management Systems | 3 | CIS 101 | ♦ | F W | | |
| CIS 401 | Web Application Programming | 3 | CIS 101, IS350, CS301 | | F W Sp | | |
| CIS 405 | Systems Engineering II | 3 | CIS 305 | ♦ | F W | | |
| CS 415 | Operating Systems Design | 3 | CS 210, CS 301 | ♦ | W | | |
| CS 420 | Programming Languages | 3 | CS 301, CS 320 | ♦ | F | | |
| CIS 470 | Ethics in Computer & Info Sciences | 2 | CIS 405 | ♦ | F W Sp | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | ♦ | F W | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | ♦ | F W | | |

CALCULUS (4-10 hours) Choose **either** Math 119 (4 credits) **or** Math 112/113 (10 credits).

| | | | | | | | |
|----------|------------------|---|--------------------|--|-----|--|--|
| Math 119 | Applied Calculus | 4 | | | F W | | |
| Math 112 | Calculus I | 5 | Math 111 or equiv. | | F W | | |
| Math 113 | Calculus II | 5 | Math 112 | | F W | | |

Additional Math Requirements (6 hours)

| | | | | | | | |
|----------|----------------------------|---|---------------------------|--|-----------|--|--|
| Math 221 | Principles of Statistics I | 3 | Math 106 or 110 or equiv. | | F W Sp Su | | |
| Math 343 | Elementary Linear Algebra | 3 | Math 112 or 119 | | F | | |

SCIENCE (8 hours) Choose any two classes from the list below. Fulfills part of GE requirements.

| | | | | | | | |
|------------|----------------------------|---|-----------------|--|------|--|--|
| PHYS 121/L | General Physics I / Lab | 4 | Math 112 or 119 | | F | | |
| PHYS 122/L | General Physics II / Lab | 4 | Phys 121 | | W | | |
| CHEM 105/L | General Chemistry I / Lab | 4 | | | F W | | |
| CHEM 106/L | General Chemistry II / Lab | 4 | Chem 105 | | W Sp | | |

- 1) One D+, D, D- is allowed above. All other credits must be C- or better.....
- 2) One retake is allowed per class, for up to three classes. Additional retakes require special permission.....
- 3) A department-approved assessment test must be taken during your last full semester at BYUH.....

B.S. in Computer Science
October 2010 · CS / COMPCBS

Name: _____ ID#: _____ Graduation Date: _____

Required courses for admission to the major (12 hours) Student must pass the following courses with a grade of C or better.

| Course # | Title | Cr | Prerequisites | Offered | Semester or Term | Grade |
|----------|-------------------------------|----|---------------|------------------------|------------------|-------|
| CIS 101 | Beginning Programming | 3 | None | F W Sp 1 st | | |
| CIS 202 | Object-Oriented Programming I | 3 | CIS 101 | F W 1 st | | |
| CIS 205 | Discrete Mathematics I | 3 | CIS 101 | W 1 st | | |
| IT 280/L | Data Communications / Lab | 3 | CIS 101 | F W Sp | | |

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

_____ student/date _____ Accepted into the major: CS Program Chair / date

Core Requirements (41 hours) classes marked "MO" are for admitted majors only

| Course # | Title | Cr | Prerequisites | MO | Offered | Semester or Term | Grade |
|----------|-------------------------------------|----|----------------------------|----|---------|------------------|-------|
| CS 203 | Object-Oriented Programming II | 3 | CIS 202 | | F Sp | | |
| CIS 206 | Discrete Mathematics II | 3 | CIS 202, CIS 205 | | F Sp | | |
| CS 210 | Computer Organization | 3 | CIS 101 | | W | | |
| CS 301 | Algorithms & Complexity | 3 | CS 203, CIS 206 | ♦ | W | | |
| CIS 305 | Systems Engineering I | 3 | CIS 205; Co/Prereq: IS 350 | ♦ | F W | | |
| CS 320 | Computational Theory | 3 | CS 203, CIS 206 | ♦ | W | | |
| IS 350 | Database Management Systems | 3 | CIS 101 | ♦ | F W | | |
| CIS 401 | Web Application Programming | 3 | CIS 101, IS350, CS301 | | F W Sp | | |
| CIS 405 | Systems Engineering II | 3 | CIS 305 | ♦ | F W | | |
| CS 415 | Operating Systems Design | 3 | CS 210, CS 301 | ♦ | W | | |
| CS 420 | Programming Languages | 3 | CS 301, CS 320 | ♦ | F | | |
| CIS 470 | Ethics in Computer & Info Sciences | 2 | CIS 405 | ♦ | F W Sp | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | ♦ | F W | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | ♦ | F W | | |

CALCULUS (4-10 hours) Choose **either** Math 119 (4 credits) **or** Math 112/113 (10 credits).

| | | | | | | | |
|----------|------------------|---|--------------------|--|-----|--|--|
| Math 119 | Applied Calculus | 4 | | | F W | | |
| Math 112 | Calculus I | 5 | Math 111 or equiv. | | F W | | |
| Math 113 | Calculus II | 5 | Math 112 | | F W | | |

Additional Math Requirements (6 hours)

| | | | | | | | |
|----------|----------------------------|---|---------------------------|--|-----------|--|--|
| Math 221 | Principles of Statistics I | 3 | Math 106 or 110 or equiv. | | F W Sp Su | | |
| Math 343 | Elementary Linear Algebra | 3 | Math 112 or 119 | | F | | |

SCIENCE (8 hours) Choose any two classes from the list below. Fulfills part of GE requirements.

| | | | | | | | |
|------------|----------------------------|---|-----------------|--|------|--|--|
| PHYS 121/L | General Physics I / Lab | 4 | Math 112 or 119 | | F | | |
| PHYS 122/L | General Physics II / Lab | 4 | Phys 121 | | W | | |
| CHEM 105/L | General Chemistry I / Lab | 4 | | | F W | | |
| CHEM 106/L | General Chemistry II / Lab | 4 | Chem 105 | | W Sp | | |

- 1) One D+, D, D- is allowed above. All other credits must be C- or better.....
- 2) One retake is allowed per class, for up to three classes. Additional retakes require special permission.....
- 3) A department-approved assessment test must be taken during your last full semester at BYUH.....

B.S. in Computer Science
October 2010 · CS / COMPCBS

Name: _____ ID#: _____ Graduation Date: _____

Required courses for admission to the major (12 hours) Student must pass the following courses with a grade of C or better.

| Course # | Title | Cr | Prerequisites | Offered | Semester or Term | Grade |
|----------|-------------------------------|----|---------------|------------------------|------------------|-------|
| CIS 101 | Beginning Programming | 3 | None | F W Sp 1 st | | |
| CIS 202 | Object-Oriented Programming I | 3 | CIS 101 | F W 1 st | | |
| CIS 205 | Discrete Mathematics I | 3 | CIS 101 | W 1 st | | |
| IT 280/L | Data Communications / Lab | 3 | CIS 101 | F W Sp | | |

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

_____ student/date _____ Accepted into the major: CS Program Chair / date

Core Requirements (41 hours) classes marked "MO" are for admitted majors only

| Course # | Title | Cr | Prerequisites | MO | Offered | Semester or Term | Grade |
|----------|-------------------------------------|----|----------------------------|----|---------|------------------|-------|
| CS 203 | Object-Oriented Programming II | 3 | CIS 202 | | F Sp | | |
| CIS 206 | Discrete Mathematics II | 3 | CIS 202, CIS 205 | | F Sp | | |
| CS 210 | Computer Organization | 3 | CIS 101 | | W | | |
| CS 301 | Algorithms & Complexity | 3 | CS 203, CIS 206 | ♦ | W | | |
| CIS 305 | Systems Engineering I | 3 | CIS 205; Co/Prereq: IS 350 | ♦ | F W | | |
| CS 320 | Computational Theory | 3 | CS 203, CIS 206 | ♦ | W | | |
| IS 350 | Database Management Systems | 3 | CIS 101 | ♦ | F W | | |
| CIS 401 | Web Application Programming | 3 | CIS 101, IS350, CS301 | | F W Sp | | |
| CIS 405 | Systems Engineering II | 3 | CIS 305 | ♦ | F W | | |
| CS 415 | Operating Systems Design | 3 | CS 210, CS 301 | ♦ | W | | |
| CS 420 | Programming Languages | 3 | CS 301, CS 320 | ♦ | F | | |
| CIS 470 | Ethics in Computer & Info Sciences | 2 | CIS 405 | ♦ | F W Sp | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | ♦ | F W | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | ♦ | F W | | |

CALCULUS (4-10 hours) Choose **either** Math 119 (4 credits) **or** Math 112/113 (10 credits).

| | | | | | | | |
|----------|------------------|---|--------------------|--|-----|--|--|
| Math 119 | Applied Calculus | 4 | | | F W | | |
| Math 112 | Calculus I | 5 | Math 111 or equiv. | | F W | | |
| Math 113 | Calculus II | 5 | Math 112 | | F W | | |

Additional Math Requirements (6 hours)

| | | | | | | | |
|----------|----------------------------|---|---------------------------|--|-----------|--|--|
| Math 221 | Principles of Statistics I | 3 | Math 106 or 110 or equiv. | | F W Sp Su | | |
| Math 343 | Elementary Linear Algebra | 3 | Math 112 or 119 | | F | | |

SCIENCE (8 hours) Choose any two classes from the list below. Fulfills part of GE requirements.

| | | | | | | | |
|------------|----------------------------|---|-----------------|--|------|--|--|
| PHYS 121/L | General Physics I / Lab | 4 | Math 112 or 119 | | F | | |
| PHYS 122/L | General Physics II / Lab | 4 | Phys 121 | | W | | |
| CHEM 105/L | General Chemistry I / Lab | 4 | | | F W | | |
| CHEM 106/L | General Chemistry II / Lab | 4 | Chem 105 | | W Sp | | |

- 1) One D+, D, D- is allowed above. All other credits must be C- or better.....
- 2) One retake is allowed per class, for up to three classes. Additional retakes require special permission.....
- 3) A department-approved assessment test must be taken during your last full semester at BYUH.....



B.S. in Computer Science

CSBS.2010 (mrs758)

71-77 credits, incl. 6-8 GE credits

Effective Date: 10/2010

| | | |
|-------------------------|--------------------------------|-----------------|
| Name of Student: | | |
| Student ID #: | | Graduation Date |
| Home Country: | <input type="checkbox"/> IWORK | |
| Advisor: | Name | Date |

Required courses for admission to the major

12 Credits

Student must pass the following courses with a grade of C or better.

| Course # | Title | Hr. | Prerequisites | Offered | Sem. | Grade |
|----------|--------------------------------|-----|---------------|---------|------|-------|
| CIS 101 | Beginning Programming | 3 | | F,W,S | | |
| CIS 202 | Object-Oriented Programming I | 3 | CIS 101 | F,W,S | | |
| CIS 205 | Discrete Mathematics I (GenEd) | 3 | CIS 101 | W,S | | |
| IT 280/L | Data Communications/Lab | 3 | | F,W,S | | |

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats, I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

Academic Advisor _____ Date _____ Student _____ Date _____ Accepted into the major: CS Program Chair _____ Date _____

Core Requirements

41 Credits

Classes marked "MO" are for admitted majors only.

| | | | | | | | |
|---------|-------------------------------------|---|--|----|-------|--|--|
| CIS 206 | Discrete Mathematics II | 3 | CIS 202, CIS 205 | | F,S | | |
| CIS 305 | Systems Engineering I | 3 | CIS 205; Co/Prereq: IS 350 | MO | F,W | | |
| CIS 401 | Web Application Programming | 3 | CIS 101, IT 240, or CS 301, and IS 350 | | F,W,S | | |
| CIS 405 | Systems Engineering II | 3 | CIS 305 | MO | F,W | | |
| CIS 470 | Ethics in Computer & Info Sciences | 2 | CIS 405 | MO | F,W,S | | |
| CS 203 | Object- Oriented Programming II | 3 | CIS 202 | | F,S | | |
| CS 210 | Computer Organization | 3 | CIS 101 | | W | | |
| CS 301 | Algorithms & Complexity | 3 | CS 203, CIS 206 | MO | W | | |
| CS 320 | Computational Theory | 3 | CS 203, CIS 206 | MO | W | | |
| CS 415 | Operating Systems Design | 3 | CS 210, CS 301 | MO | W | | |
| CS 420 | Programming Languages | 3 | CS 301, CS 320 | MO | F | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | MO | F,W | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | MO | F,W | | |
| IS 350 | Database Management Systems | 3 | CIS 101 | MO | F,W | | |

CALCULUS

4-10 Credits

Choose either Math 119 (4 credits) or Math 112/113 (10 Credits).

| | | | | | | | |
|----------|--------------------------|---|------------------------|--|-----|--|--|
| MATH 119 | Applied Calculus (GenEd) | 4 | MATH 110 experience | | W | | |
| MATH 112 | Calculus I (GenEd) | 5 | MATH 111 or equivalent | | F,W | | |
| MATH 113 | Calculus II (GenEd) | 5 | MATH 112 | | W | | |

Additional Math Requirements

6 Credits

| | | | | | | | |
|----------|------------------------------------|---|-------------------------------|--|-------|--|--|
| MATH 221 | Principles of Statistics I (GenEd) | 3 | MATH 106 or 110 or equivalent | | F,W,S | | |
| MATH 343 | Elementary Linear Algebra | 3 | MATH 112 or MATH 119 | | F | | |

SCIENCE

8 Credits

Choose any two classes from the list below. Fulfills part of GE requirements.

| | | | | | | | |
|------------|--------------------------------------|---|------------------------|--|-----|--|--|
| PHYS 121/L | General Physics I/ Lab (GenEd- 3) | 4 | MATH 112 or MATH 119 | | W,S | | |
| PHYS 122/L | General Physics II/ Lab | 4 | PHYS 121 | | W,S | | |
| CHEM 105/L | General Chemistry I/ Lab (GenEd - 3) | 4 | MATH 110 or equivalent | | F,W | | |
| CHEM 106/L | General Chemistry II/ Lab | 4 | CHEM 105/L | | W,S | | |

Total Credits Mapped for Graduation:

- One D+, D, D- is allowed above. All other credits must be C- or better.
- One retake is allowed per class, for up to three classes. Additional retakes require special permission.
- A department-approved assessment test must be taken during your last full semester at BYUH.

The terms of this MRS will be honored by the Department and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.



B.S. in Computer Science

COMPSCBS.2010

71-77 credits, incl. 6-8 GE credits

Effective Date: 10/12/2010

| | | | |
|------------------|--------------------------------|----------|------|
| Name of Student: | | | |
| Student ID #: | | | |
| Home Country: | <input type="checkbox"/> IWORK | | |
| Grad. Date: | | | |
| Advisor: | Name | Initials | Date |
| Date Started: | | | |

Required courses for admission to the major 12 Credits

Student must pass the following courses with a grade of C or better.

| Course # | Title | Hr. | Prerequisites | Offered | Sem. | Grade |
|----------|--------------------------------|-----|---------------|---------|------|-------|
| CIS 101 | Beginning Programming | 3 | | F,W,S | | |
| CIS 202 | Object-Oriented Programming I | 3 | CIS 101 | F,W,S | | |
| CIS 205 | Discrete Mathematics I (GenEd) | 3 | CIS 101 | W,S | | |
| IT 280/L | Data Communications/Lab | 3 | | F,W,S | | |

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats, I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

Academic Advisor _____
Date Student Date Accepted into the major: CS Program Chair Date

Core Requirements 41 Credits

Classes marked "MO" are for admitted majors only.

| | | | | | | | |
|---------|-------------------------------------|---|--|----|-------|--|--|
| CIS 206 | Discrete Mathematics II | 3 | CIS 202, CIS 205 | | F,S | | |
| CIS 305 | Systems Engineering I | 3 | CIS 205; Co/Prereq: IS 350 | MO | F,W | | |
| CIS 401 | Web Application Programming | 3 | CIS 101, IT 240, IS 350 or instructor's permission | | F,W,S | | |
| CIS 405 | Systems Engineering II | 3 | CIS 305 | MO | F,W | | |
| CIS 470 | Ethics in Computer & Info Sciences | 2 | CIS 405 | MO | F,W,S | | |
| CS 203 | Object- Oriented Programming II | 3 | CIS 202 | | F,S | | |
| CS 210 | Computer Organization | 3 | CIS 101 | | W | | |
| CS 301 | Algorithms & Complexity | 3 | CS 203, CIS 206 | MO | W | | |
| CS 320 | Computational Theory | 3 | CS 203, CIS 206 | MO | W | | |
| CS 415 | Operating Systems Design | 3 | CS 210, CS 301 | MO | W | | |
| CS 420 | Programming Languages | 3 | CS 301, CS 320 | MO | F | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | MO | F,W | | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | MO | F,W | | |
| IS 350 | Database Management Systems | 3 | CIS 101 | MO | F,W | | |

CALCULUS 4-10 Credits

Choose either Math 119 (4 credits) or Math 112/113 (10 Credits).

| | | | | | | | |
|----------|--------------------------|---|------------------------|--|-----|--|--|
| MATH 119 | Applied Calculus (GenEd) | 4 | MATH 110 experience | | W | | |
| MATH 112 | Calculus I (GenEd) | 5 | MATH 111 or equivalent | | F,W | | |
| MATH 113 | Calculus II (GenEd) | 5 | MATH 112 | | W | | |

Additional Math Requirements 6 Credits

| | | | | | | | |
|----------|------------------------------------|---|-------------------------------|--|-------|--|--|
| MATH 221 | Principles of Statistics I (GenEd) | 3 | MATH 106 or 110 or equivalent | | F,W,S | | |
| MATH 343 | Elementary Linear Algebra | 3 | MATH 112 or MATH 119 | | F | | |

SCIENCE 8 Credits

Choose any two classes from the list below. Fulfills part of GE requirements.

| | | | | | | | |
|------------|--------------------------------------|---|------------------------|--|-----|--|--|
| PHYS 121/L | General Physics I/ Lab (GenEd - 3) | 4 | MATH 112 or MATH 119 | | F | | |
| PHYS 122/L | General Physics II/ Lab | 4 | PHYS 121 | | W | | |
| CHEM 105/L | General Chemistry I/ Lab (GenEd - 3) | 4 | MATH 110 or equivalent | | F,W | | |
| CHEM 106/L | General Chemistry II/ Lab | 4 | CHEM 105/L | | W,S | | |

Total Credits Mapped for Graduation:

- One D+, D, D- is allowed above. All other credits must be C- or better. _____
- One retake is allowed per class, for up to three classes. Additional retakes require special permission. _____
- A department-approved assessment test must be taken during your last full semester at BYUH. _____

Based on completion of remaining classes as indicated on this MRS, this student is authorized to graduate with this major.

Dept. Chair (Printed) Signature Date



B.S. in Computer Science
COMPSCBS.2010
71-77 credits, incl. 6-8 GE credits

Effective Date: 10/2010

| | | |
|-------------------------|--------------------------------|-----------------|
| Name of Student: | | |
| Student ID #: | | Graduation Date |
| Home Country: | <input type="checkbox"/> IWORK | |
| Advisor: | Name | Date |

Required courses for admission to the major **12 Credits**

Student must pass the following courses with a grade of C or better.

| Course # | Title | Hr. | Prerequisites | Offered | Sem. | Grade |
|----------|--------------------------------|-----|---------------|---------|------|-------|
| CIS 101 | Beginning Programming | 3 | | F,W,S | | |
| CIS 202 | Object-Oriented Programming I | 3 | CIS 101 | F,W,S | | |
| CIS 205 | Discrete Mathematics I (GenEd) | 3 | CIS 101 | W,S | | |
| IT 280/L | Data Communications/Lab | 3 | | F,W,S | | |

To be accepted into this major, you must pass all courses listed above with a C or better. You must also have a cumulative GPA of 2.0 or higher. I understand that **One retake is allowed per class, for up to three classes. Additional retakes require special permission.** I understand that if I exhaust my repeats, I risk the chance of not being able to continue in the major or any other major in the CIS department. Please acknowledge that you understand this policy by signing below.

Academic Advisor _____ Date _____ Student _____ Date _____ Accepted into the major: CS Program Chair _____ Date _____

Core Requirements **41 Credits**

Classes marked "MO" are for admitted majors only.

| | | | | | | |
|---------|-------------------------------------|---|--|----|-------|--|
| CIS 206 | Discrete Mathematics II | 3 | CIS 202, CIS 205 | | F,S | |
| CIS 305 | Systems Engineering I | 3 | CIS 205; Co/Prereq: IS 350 | MO | F,W | |
| CIS 401 | Web Application Programming | 3 | CIS 101, IT 240, IS 350 or instructor's permission | | F,W,S | |
| CIS 405 | Systems Engineering II | 3 | CIS 305 | MO | F,W | |
| CIS 470 | Ethics in Computer & Info Sciences | 2 | CIS 405 | MO | F,W,S | |
| CS 203 | Object- Oriented Programming II | 3 | CIS 202 | | F,S | |
| CS 210 | Computer Organization | 3 | CIS 101 | | W | |
| CS 301 | Algorithms & Complexity | 3 | CS 203, CIS 206 | MO | W | |
| CS 320 | Computational Theory | 3 | CS 203, CIS 206 | MO | W | |
| CS 415 | Operating Systems Design | 3 | CS 210, CS 301 | MO | W | |
| CS 420 | Programming Languages | 3 | CS 301, CS 320 | MO | F | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | MO | F,W | |
| CS 490R | Advanced Topics in Computer Science | 3 | CS 301 | MO | F,W | |
| IS 350 | Database Management Systems | 3 | CIS 101 | MO | F,W | |

CALCULUS **4-10 Credits**

Choose either Math 119 (4 credits) or Math 112/113 (10 Credits).

| | | | | | | |
|----------|--------------------------|---|------------------------|--|-----|--|
| MATH 119 | Applied Calculus (GenEd) | 4 | MATH 110 experience | | W | |
| MATH 112 | Calculus I (GenEd) | 5 | MATH 111 or equivalent | | F,W | |
| MATH 113 | Calculus II (GenEd) | 5 | MATH 112 | | W | |

Additional Math Requirements **6 Credits**

| | | | | | | |
|----------|------------------------------------|---|-------------------------------|--|-------|--|
| MATH 221 | Principles of Statistics I (GenEd) | 3 | MATH 106 or 110 or equivalent | | F,W,S | |
| MATH 343 | Elementary Linear Algebra | 3 | MATH 112 or MATH 119 | | F | |

SCIENCE **8 Credits**

Choose any two classes from the list below. Fulfills part of GE requirements.

| | | | | | | |
|------------|--------------------------------------|---|------------------------|--|-----|--|
| PHYS 121/L | General Physics I/ Lab (GenEd- 3) | 4 | MATH 112 or MATH 119 | | W,S | |
| PHYS 122/L | General Physics II/ Lab | 4 | PHYS 121 | | W,S | |
| CHEM 105/L | General Chemistry I/ Lab (GenEd - 3) | 4 | MATH 110 or equivalent | | F,W | |
| CHEM 106/L | General Chemistry II/ Lab | 4 | CHEM 105/L | | W,S | |

Total Credits Mapped for Graduation:

- One D+, D, D- is allowed above. All other credits must be C- or better.
- One retake is allowed per class, for up to three classes. Additional retakes require special permission.
- A department-approved assessment test must be taken during your last full semester at BYUH.

The terms of this MRS will be honored by the Department and University within the next 8 years. If courses cease to be offered, options for substitution will be provided.