Suggested Study Plan for Semester 1 Start (BInfTech)



No Major or Minor Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Extension Courses | | |
|-----------|-----------|---|---|-------------------------------------|---------------------------------|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics | 3 |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | | |
| Y2 | S1 | DECO2500 Human-Computer Interaction | | | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | | | |
| Y3 | S1 | DECO3800 Design Computing Studio 3: Propose | | | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | | | | |

2

You must choose at least 5 courses (10 units) from the "Advanced Elective Courses" section of the <u>BInfTech program rules & requirements</u>. At least 2 courses (4 units) of those must be at Level 3 (e.g. CSSE3xxx).

Fill the remaining free slots with **Program Electives** or **General Electives** from the <u>BlnfTech program rules & requirements</u>.

Note: Of the 48 units required for the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.



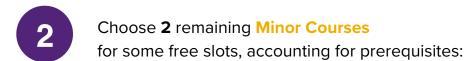




Minor in Computer Systems

Valid from 2021

| 1 | The tal | ole below shows the require | cd: Compulsory Courses | Extension Courses | Minor Courses |
|-----------|-----------|--|---|---|---------------------------------|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | DECO2500 Human-Computer Interaction | CSSE2010 Introduction to Computer Systems | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | CSSE2310 Computer Systems Principles and Programming | |
| Y3 | S1 | DECO3800 Design Computing Studio 3: Propose | | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | | | |



| S1 | COMS3200 | | |
|-----------|----------|----------|--|
| S2 | COMP3301 | CYBR3000 | |



You must choose at least 2 courses (4 units) from the "Advanced Elective Courses" section of the BInfTech program rules & requirements.

Fill the remaining free slots with **Program Electives** or **General Electives** from the
BInfTech program rules & requirements.



Suggested Study Plan for Semester 1 Start (BInfTech)



Major in Software Design

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses | |
|-----------|-----------|--|---|---------------------------------------|---------------------------------|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | CSSE2002 Programming in the Large | DECO2500 Human-Computer Interaction | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | COMP3506 Algorithms & Data Structures | |
| Y3 | S1 | CSSE3012 The Software Process | DECO3800 Design Computing Studio 3: Propose | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | | | |



| S1 | COMP2048 COMP3400 | CSSE2010 CSSE2310 | CSSE3100 |
|-----------|----------------------|----------------------|----------|
| S2 | COMP3702 CYBR3000 | CSSE2010 CSSE2310 | DECO3500 |



Fill the remaining free slots with **Program Electives** or **General Electives** from the
BInfTech program rules & requirements.

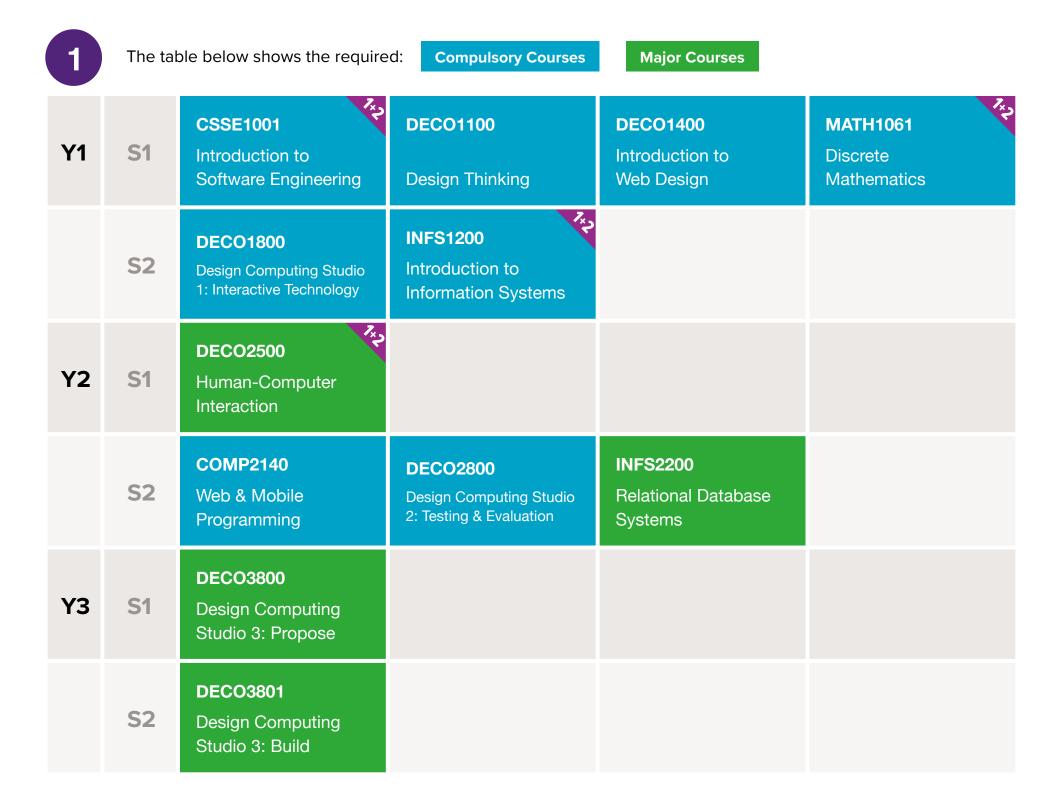


Suggested Study Plan for Semester 1 Start (BInfTech)



Major in Software Information Systems

Valid from 2021





| S1 | BISM3222 | INFS3200 | INFS3202 |
|-----------|----------|----------|----------|
| S2 | INFS3200 | INFS3208 | DATA2001 |



Fill the remaining free slots with **Program Electives** or **General Electives** from the
BInfTech program rules & requirements.



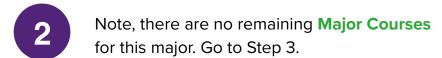




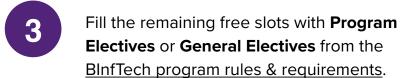
Major in User Experience Design

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses | |
|-----------|-----------|---|---|-------------------------------------|---------------------------------|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | DECO2200 Graphic Design | DECO2500 Human-Computer Interaction | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | DECO2300 Digital Prototyping | |
| Y3 | S1 | DECO3800 Design Computing Studio 3: Propose | DECO3850 Physical Computing & Interaction Design Studio |) | |
| | S2 | DECO3500 Social & Mobile Computing | DECO3801 Design Computing Studio 3: Build | | |



| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |





Suggested Study Plan for Semester 1 Start (BInfTech)



Major in Software Design + Minor in Computer Systems

Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Major Courses M | inor Courses |
|----|-----------|--|---|---|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | CSSE2002 Programming in the Large | DECO2500 Human-Computer Interaction | CSSE2010 Introduction to Computer Systems | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | COMP3506 Algorithms & Data Structures | CSSE2310 Computer Systems Principles and Programming |
| Y3 | S1 | CSSE3012 The Software Process | DECO3800 Design Computing Studio 3: Propose | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | | | |



| S1 | COMP2048 | COMP3400 | CSSE3100 |
|-----------|----------|----------|----------|
| S2 | COMP3702 | CYBR3000 | DECO3500 |

Choose 2 remaining Minor Courses for some free slots, accounting for prerequisites:

| S1 | COMS3200 | | |
|-----------|----------|----------|--|
| S2 | COMP3301 | CYBR3000 | |



Fill the remaining free slots with **Program Electives** or **General Electives** from the <u>BlnfTech program rules & requirements</u>.





Suggested Study Plan for Semester 1 Start (BInfTech)

Major in Software Information Systems + **Minor in Computer Systems**

Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Major Courses M | inor Courses |
|-----------|-----------|--|---|--|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | DECO2500 Human-Computer Interaction | CSSE2010 Introduction to Computer Systems | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | INFS2200 Relational Database Systems | CSSE2310 Computer Systems Principles and Programming |
| Y3 | S1 | DECO3800 Design Computing Studio 3: Propose | | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | | | |



| S1 | BISM3222 | INFS3200 | INFS3202 |
|-----------|----------|----------|----------|
| S2 | INFS3200 | INFS3208 | DATA2001 |

| 3 | Choose 2 remaining Minor Courses |
|---|--|
| 3 | for some free slots, accounting for prerequisites: |

| S1 | COMS3200 | | |
|-----------|----------|----------|--|
| S2 | COMP3301 | CYBR3000 | |



Fill the remaining free slots with **Program Electives** or **General Electives** from the <u>BlnfTech program rules & requirements</u>.



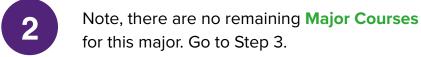




Major in User Experience Design + Minor in Computer Systems

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses M | inor Courses |
|----|-----------|---|---|---|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | DECO2200 Graphic Design | DECO2500 Human-Computer Interaction | CSSE2010 Introduction to Computer Systems | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | DECO2300 Digital Prototyping | CSSE2310 Computer Systems Principles and Programming |
| Y3 | S1 | DECO3800 Design Computing Studio 3: Propose | DECO3850 Physical Computing & Interaction Design Studio | | |
| | S2 | DECO3500 Social & Mobile Computing | DECO3801 Design Computing Studio 3: Build | | |



| S1 | _ | - | - |
|-----------|---|---|---|
| S2 | _ | _ | _ |

| 3 | Choose 2 remaining Minor Courses |
|---|--|
| 3 | for some free slots, accounting for prerequisites: |

| S1 | COMS3200 | | |
|-----------|----------|----------|--|
| S2 | COMP3301 | CYBR3000 | |



Fill the remaining free slots with **Program Electives** or **General Electives** from the <u>BlnfTech program rules & requirements</u>.







Major in Software Design + Major in Software Information Systems

Valid from 2021

| 1 | The ta | ble below shows the require | ed: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|---|---|---------------------------------------|--------------------------------------|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | CSSE2002 Programming in the Large | DECO2500 Human-Computer Interaction | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | COMP3506 Algorithms & Data Structures | INFS2200 Relational Database Systems |
| Y3 | S1 | CSSE3012 The Software Process | DECO3800 Design Computing Studio 3: Propose | | |
| | S2 | DECO3801 Design Computing | | | |



| S1 | COMP2048 COMP3400 | CSSE2010 CSSE2310 | CSSE3100 |
|-----------|----------------------|----------------------|----------|
| S2 | COMP3702 CYBR3000 | CSSE2010 CSSE2310 | DECO3500 |

| 3 | Choose 4 remaining Secondary Major Courses |
|---|--|
| | for some free slots, accounting for prerequisites: |

| S1 | BISM3222 | INFS3200 | INFS3202 |
|-----------|----------|----------|----------|
| S2 | INFS3200 | INFS3208 | DATA2001 |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3800** (Level 3) and **DECO3801** (Level 3) — from the <u>BlnfTech program rules & requirements</u>.



Suggested Study Plan for Semester 1 Start (BInfTech)



Major in Software Design + Major in User Experience Design

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|---|---|---|---------------------------------|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | CSSE2002 Programming in the Large | DECO2500 Human-Computer Interaction | DECO2200 Graphic Design | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | COMP3506 Algorithms & Data Structures | DECO2300 Digital Prototyping |
| Y3 | S1 | CSSE3012 The Software Process | DECO3800 Design Computing Studio 3: Propose | DECO3850 Physical Computing & Interaction Design Studion | 0 |
| | S2 | DECO3801 Design Computing Studio 3: Build | DECO3500 Social & Mobile Computing | | |



| S1 | COMP2048 COMP3400 | CSSE2010 CSSE2310 | CSSE3100 |
|-----------|----------------------|----------------------|----------|
| S2 | COMP3702 CYBR3000 | CSSE2010 CSSE2310 | DECO3500 |

Note, there are no remaining **Secondary Major** Courses for this major. Go to Step 4.

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3800** (Level 3) and **DECO3801** (Level 3) — from the <u>BlnfTech program rules</u> & requirements.





Suggested Study Plan for Semester 1 Start (BInfTech)

Major in Software Information Systems + Major in User Experience Design

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|----|-----------|---|---|--|---------------------------------|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | DECO1100 Design Thinking | DECO1400 Introduction to Web Design | MATH1061 Discrete Mathematics |
| | S2 | DECO1800 Design Computing Studio 1: Interactive Technology | INFS1200 Introduction to Information Systems | | |
| Y2 | S1 | DECO2500 Human-Computer Interaction | DECO2200 Graphic Design | | |
| | S2 | COMP2140 Web & Mobile Programming | DECO2800 Design Computing Studio 2: Testing & Evaluation | INFS2200 Relational Database Systems | DECO2300 Digital Prototyping |
| Y3 | S1 | DECO3800 Design Computing Studio 3: Propose | DECO3850 Physical Computing & Interaction Design Studio |) | |
| | S2 | DECO3801 Design Computing Studio 3: Build | DECO3500 Social & Mobile Computing | | |



| S1 | BISM3222 | INFS3200 | INFS3202 |
|------------|----------|----------|----------|
| S 2 | INFS3200 | INFS3208 | DATA2001 |

| 3 | Note, there are no remaining Secondary Major |
|---|---|
| | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3800** (Level 3) and **DECO3801** (Level 3) — from the <u>BInfTech program rules</u> & requirements.





Suggested Study Plan for Semester 1 Start (BCompSc)

| Study | y Plan 1 | for | | Valid from 2021 |
|-------|-----------|----------------|------|-----------------|
| 1 | Majo | r Combination: | | |
| Y1 | S1 | | | |
| | S2 | | | |
| Y2 | S1 | | | |
| | S2 | | | |
| Y3 | S1 | | | |
| | S2 | | | |

Note: of the 48 units required for the program, you must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.

Suggested Study Plan for Semester 1 Start (BCompSc)



No Major or Extended Major

Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Extension Courses | |
|----|-----------|---|--|--|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | |
| Y2 | S1 | COMP2048 Theory of Computing | | | |
| | S2 | COMP3506 Algorithms & Data Structures | | | |
| Y3 | S1 | | | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | | | |



You must choose at least 4 courses (8 units) from the "Introductory Elective Courses" section and at least 3 courses (6 units) from the "Advanced Elective Courses" section of the program rules & requirements.

Fill the remaining free slots with **Program Electives** or **General Electives** from the <u>BCompSc program rules & requirements</u>.

Note: of the 48 units required for the program, students must complete at least 8 units of courses at Level 3 or higher and no more than 24 units at Level 1.



Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Cyber Security

Valid from 2021





| S1 | CRIM1000 | DECO2500 | |
|-----------|----------|----------|----------|
| S2 | CRIM1000 | DECO2500 | INFS2200 |



Fill the remaining free slots with **Program Electives** or **General Electives** from the
BCompSc program rules & requirements.



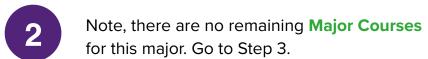
Suggested Study Plan for Semester 1 Start (BCompSc)

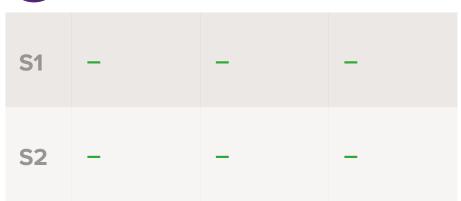


Major in Data Science

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses | |
|----|-----------|---|--|--|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | |
| Y2 | S1 | COMP2048 Theory of Computing | STAT2003 Mathematical Probability | | |
| | S2 | COMP3506 Algorithms & Data Structures | DATA2001 Introduction to Data Science | INFS2200 Relational Database Systems | STAT2004 Statistical Modelling & Analysis |
| Y3 | S1 | COMP4702 Machine Learning | INFS3200 Advanced Database Systems | | |
| | | DECO3801 | | | |







Fill the remaining free slots with **Program Electives** or **General Electives** from the

<u>BCompSc program rules & requirements.</u>



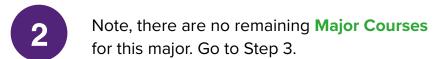
Suggested Study Plan for Semester 1 Start (BCompSc)

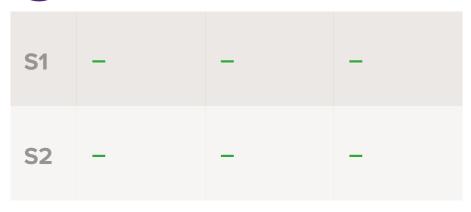


Major in Machine Learning

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses | |
|-----------|-----------|---|---|--|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH1052 Multivariate Calculus & Ordinary Differential Equations Or MATH1072 |
| Y2 | S1 | COMP2048 Theory of Computing | | | |
| | S2 | COMP3506 Algorithms & Data Structures | COMP3702 Artificial Intelligence | MATH2302 Discrete Mathematics II | |
| Y3 | S1 | COMP4702 | | | |
| | | Machine Learning | | | |
| | S2 | COMP3710 Pattern Recognition and Analysis | DECO3801 Design Computing Studio 3: Build | STAT3006 Statistical Learning | |







Fill the remaining free slots with **Program Electives** or **General Electives** from the

<u>BCompSc program rules & requirements.</u>



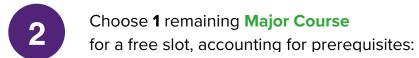
Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Programming Languages

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses |
|----|-----------|---|---|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 |
| Y2 | S1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | DECO1400 Introduction to Web Design |
| | S2 | COMP3506 Algorithms & Data Structures | COMP2140 Web & Mobile Programming | |
| Y3 | S1 | COMP3400 Functional & Logic Programming | COMP4403 Compilers and Interpreters | CSSE3100 Reasoning About Programs |
| | S2 | DECO3801 Design Computing Studio 3: Build | | |



| S1 | DECO2500 | | |
|-----------|----------|----------|--|
| S2 | DECO2500 | INFS2200 | |



Fill the remaining free slots with **Program Electives** or **General Electives** from the

<u>BCompSc program rules & requirements.</u>



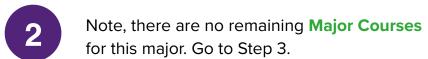
Suggested Study Plan for Semester 1 Start (BCompSc)

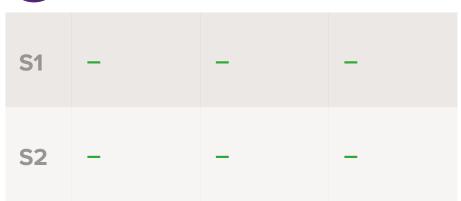


Major in Scientific Computing

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses | |
|-----------|-----------|---|---|--|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH1052 Multivariate Calculus & Ordinary Differential Equations Or MATH1072 |
| Y2 | S1 | COMP2048 Theory of Computing | SCIE2100 Bioinformatics 1: Introduction | | |
| | S2 | COMP3506 Algorithms & Data Structures | COSC2500 Numerical Methods in Computational Science | INFS2200 Relational Database Systems | |
| Y3 | S1 | COSC3000 Visualization, Computer Graphics & Data Analysis | | | |
| | S2 | COSC3500 High-Performance Computing | DECO3801 Design Computing Studio 3: Build | | |







Fill the remaining free slots with **Program Electives** or **General Electives** from the

<u>BCompSc program rules & requirements.</u>



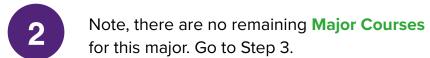
Suggested Study Plan for Semester 1 Start (BCompSc)

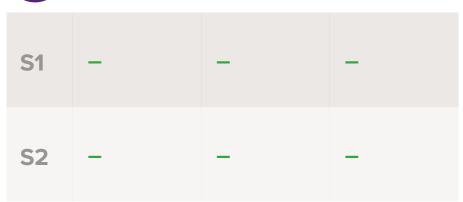


Extended Major in Data Science

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Major Courses | |
|----|-----------|---|--|---|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | |
| Y2 | S1 | COMP2048 Theory of Computing | STAT2003 Mathematical Probability | | |
| | S2 | COMP3506 Algorithms & Data Structures | DATA2001 Introduction to Data Science | INFS2200 Relational Database Systems | STAT2004 Statistical Modelling & Analysis |
| Y3 | S1 | COMP4702 Machine Learning | INFS3200 Advanced Database Systems | INFS4205 Advanced Techniques for High Dimensional Data | |
| | S2 | COMP3702 Artificial Intelligence | DECO3801 Design Computing Studio 3: Build | INFS4203 Data Mining | INFS3208 Cloud Computing |







Fill the remaining free slots with **Program Electives** or **General Electives** from the

<u>BCompSc program rules & requirements.</u>



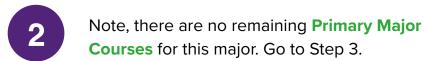
Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Cyber Security + Major in Data Science

Valid from 2021

| 1 | The tal | ble below shows the require | ed: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|--|---|--|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | CRIM1000 Introduction to Criminology |
| Y2 | S1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | STAT2003 Mathematical Probability | DECO2500 Human-Computer Interaction |
| | S2 | COMP3506 Algorithms & Data Structures | CYBR3000 Information Security | DATA2001 Introduction to Data Science | INFS2200 Relational Database Systems |
| Y3 | S1 | COMP3320 Vulnerability Assessment and Penetration Testing | COMS3200 Computer Networks I | COMP4702 Machine Learning | INFS3200 Advanced Database Systems |
| | S2 | COMP3301 Operating Systems Architecture | DECO3801 Design Computing Studio 3: Build | STAT2004 Statistical Modelling & Analysis | |



| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |

| 3 | Note, there are no remaining Secondary Major |
|---|--|
| | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ | |
|-----------|---|---|---|--|
| S2 | _ | _ | _ | |



Fill the remaining free slot with a same-level or higher **Program Elective** replacing the course shared between

majors — **DECO3801** (Level 3) — from the <u>BCompSc</u>

<u>program rules & requirements</u>.



Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Cyber Security + Major in Machine Learning

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|--|---|--|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH1052 Multivariate Calculus & Ordinary Differential Equations Or MATH1072 |
| Y2 | S1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | | |
| | S2 | COMP3506 Algorithms & Data Structures | CYBR3000 Information Security | COMP3702 Artificial Intelligence | MATH2302 Discrete Mathematics II |
| Y3 | S1 | COMP3320 Vulnerability Assessment and Penetration Testing | COMS3200 Computer Networks I | COMP4702 Machine Learning | |
| | S2 | COMP3301 Operating Systems Architecture | DECO3801 Design Computing Studio 3: Build | COMP3710 Pattern Recognition and Analysis | STAT3006 Statistical Learning |



| S1 | CRIM1000 | DECO2500 | |
|-----------|----------|----------|----------|
| S2 | CRIM1000 | DECO2500 | INFS2200 |

| 3 | Note, there are no remaining Secondary Major |
|---|---|
| 3 | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.



Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Cyber Security + **Major in Programming Languages**

Valid from 2021

| 1 | The ta | ble below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|------------|--|---|--|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | DECO1400 Introduction to Web Design |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | |
| Y2 | S 1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | CSSE3100 Reasoning About Programs | |
| | S2 | COMP3506 Algorithms & Data Structures | CYBR3000 Information Security | COMP2140 Web & Mobile Programming | |
| Y3 | S1 | COMP3320 Vulnerability Assessment and Penetration Testing | COMS3200 Computer Networks I | COMP3400 Functional & Logic Programming | COMP4403 Compilers and Interpreters |
| | S2 | COMP3301 Operating Systems Architecture | DECO3801 Design Computing Studio 3: Build | | |



| S1 | CRIM1000 | DECO2500 | |
|-----------|----------|----------|----------|
| S2 | CRIM1000 | DECO2500 | INFS2200 |

| 3 | Choose 1 remaining Secondary Major Course |
|---|--|
| 3 | for a free slot, accounting for prerequisites: |

| S1 | DECO2500 | |
|-----------|----------|----------|
| S2 | DECO2500 | INFS2200 |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **CSSE2310** (Level 2) and **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.



Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Cyber Security + Major in Scientific Computing

Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|--|---|---|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH1052 Multivariate Calculus & Ordinary Differential Equations Or MATH1072 |
| Y2 | S1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | SCIE2100 Bioinformatics 1: Introduction | |
| | S2 | COMP3506 Algorithms & Data Structures | CYBR3000 Information Security | COSC2500 Numerical Methods in Computational Science | INFS2200 Relational Database Systems |
| Y3 | S1 | COMP3320 Vulnerability Assessment and Penetration Testing | COMS3200 Computer Networks I | COSC3000 Visualization, Computer Graphics & Data Analysis | |
| | S2 | COMP3301 Operating Systems Architecture | DECO3801 Design Computing Studio 3: Build | COSC3500 High-Performance Computing | |



| S1 | CRIM1000 | DECO2500 | |
|-----------|----------|----------|----------|
| S2 | CRIM1000 | DECO2500 | INFS2200 |

| 3 | Note, there are no remaining Secondary Major |
|---|---|
| 3 | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.



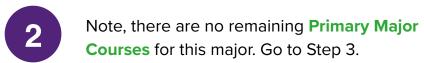
Suggested Study Plan for Semester 1 Start (BCompSc)



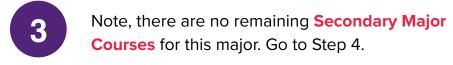
Major in Data Science + Major in Machine Learning

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|---|--|---|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH2302 Discrete Mathematics II |
| Y2 | S1 | COMP2048 Theory of Computing | STAT2003 Mathematical Probability | MATH1052 Multivariate Calculus & Ordinary Differential Equations | |
| | S2 | COMP3506 Algorithms & Data Structures | DATA2001 Introduction to Data Science | INFS2200 Relational Database Systems | STAT2004 Statistical Modelling & Analysis |
| Y3 | S1 | COMP4702 Machine Learning | INFS3200 Advanced Database Systems | | |
| | S2 | DECO3801 Design Computing Studio 3: Build | COMP3702 Artificial Intelligence | COMP3710 Pattern Recognition and Analysis | Statistical Learning |



| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



| S1 | _ | _ | _ | |
|-----------|---|---|---|--|
| S2 | _ | _ | _ | |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **MATH1051** (Level 1), **COMP4702** (Level 4) and **DECO3801** (Level 3) — from the <u>BCompSc program rules</u> & requirements.



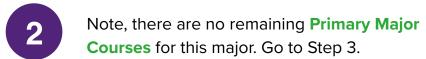
Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Data Science + Major in Programming Languages

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|---|--|---|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | |
| Y2 | S1 | COMP2048 Theory of Computing | STAT2003 Mathematical Probability | CSSE2310 Computer Systems Principles & Programming | DECO1400 Introduction to Web Design |
| | S2 | COMP3506 Algorithms & Data Structures | INFS2200 Relational Database Systems | DATA2001 Introduction to Data Science | COMP2140 Web & Mobile Programming |
| Y3 | S1 | COMP4702 Machine Learning | COMP3400 Functional & Logic Programming | COMP4403 Compilers and Interpreters | CSSE3100 Reasoning About Programs |
| | S2 | DECO3801 Design Computing Studio 3: Build | INFS3200 Advanced Database Systems | STAT2004 Statistical Modelling & Analysis | |



| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |

| 3 | Choose 1 remaining Secondary Major Course |
|---|--|
| 0 | for a free slot, accounting for prerequisites: |

| S1 | DECO2500 | |
|-----------|----------|----------|
| S2 | DECO2500 | INFS2200 |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.



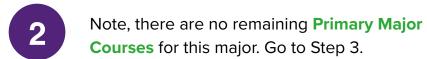
Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Data Science + Major in Scientific Computing

Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|----|-----------|---|--|---|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | |
| Y2 | S1 | COMP2048 Theory of Computing | STAT2003 Mathematical Probability | MATH1052 Multivariate Calculus & Ordinary Differential Equations | SCIE2100 Bioinformatics 1: Introduction |
| | S2 | COMP3506 Algorithms & Data Structures | INFS2200 Relational Database Systems | DATA2001 Introduction to Data Science | COSC2500 Numerical Methods in Computational Science |
| Y3 | S1 | COMP4702 Machine Learning | INFS3200 Advanced Database Systems | COSC3000 Visualization, Computer Graphics & Data Analysis | |
| | S2 | DECO3801 Design Computing Studio 3: Build | STAT2004 Statistical Modelling & Analysis | COSC3500 High-Performance Computing | |



| S1 | _ | _ | - |
|-----------|---|---|---|
| S2 | _ | _ | _ |

| 3 | Note, there are no remaining Secondary Major |
|---|--|
| 3 | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **MATH1051** (Level 1), **INFS2200** (Level 2) and **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.



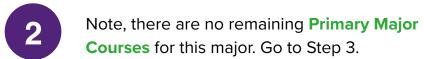




Major in Machine Learning + Major in Programming Languages

Valid from 2021

| 1 | The tal | ole below shows the require | ed: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|----|-----------|---|---|--|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH1052 Multivariate Calculus & Ordinary Differential Equations Or MATH1072 |
| Y2 | S1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | DECO1400 Introduction to Web Design | |
| | S2 | COMP3506 Algorithms & Data Structures | COMP3702 Artificial Intelligence | MATH2302 Discrete Mathematics II | COMP2140 Web & Mobile Programming |
| Y3 | S1 | COMP4702 Machine Learning | COMP3400 Functional & Logic Programming | COMP4403 Compilers and Interpreters | CSSE3100 Reasoning About Programs |
| | S2 | COMP3710 Pattern Recognition and Analysis | DECO3801 Design Computing Studio 3: Build | STAT3006 Statistical Learning | |



| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |

| 3 | Choose 1 remaining Secondary Major Course |
|---|--|
| | for a free slot, accounting for prerequisites: |

| S1 | DECO2500 | | |
|-----------|----------|----------|--|
| S2 | DECO2500 | INFS2200 | |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.



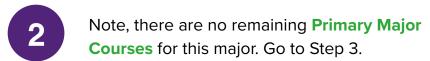
Suggested Study Plan for Semester 1 Start (BCompSc)



Major in Machine Learning + Major in Scientific Computing

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|---|---|---|--|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH2302 Discrete Mathematics II |
| Y2 | S1 | COMP2048 Theory of Computing | MATH1052 Multivariate Calculus & Ordinary Differential Equations | SCIE2100 Bioinformatics 1: Introduction | |
| | S2 | COMP3506 Algorithms & Data Structures | COMP3702 Artificial Intelligence | COSC2500 Numerical Methods in Computational Science | INFS2200 Relational Database Systems |
| Y3 | S1 | COMP4702 Machine Learning | COSC3000 Visualization, Computer Graphics & Data Analysis | | |
| | S2 | COMP3710 Pattern Recognition and Analysis | DECO3801 Design Computing Studio 3: Build | STAT3006 Statistical Learning | COSC3500 High-Performance Computing |



| S1 | - | _ | - |
|-----------|---|---|---|
| S2 | _ | _ | _ |

| 3 | Note, there are no remaining Secondary Major |
|---|--|
| | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



Fill the remaining free slots with same-level or higher **Program Electives** replacing the courses shared between majors — including **MATH1051** (Level 1), **MATH1052** (Level 1) and **DECO3801** (Level 3) — from the <u>BCompSc program rules & requirements</u>.







Major in Programming Languages + Major in Scientific Computing

Valid from 2021

| 1 | The tal | ole below shows the require | d: Compulsory Courses | Primary Major Courses | Secondary Major Courses |
|-----------|-----------|---|---|---|---|
| Y1 | S1 | CSSE1001 Introduction to Software Engineering | INFS1200 Introduction to Information Systems | MATH1061 Discrete Mathematics | MATH1051 Calculus & Linear Algebra Or MATH1071 |
| | S2 | CSSE2002 Programming in the Large | CSSE2010 Introduction to Computer Systems | STAT1201 Analysis of Scientific Data Or STAT1301 | MATH1052 Multivariate Calculus & Ordinary Differential Equations Or MATH1072 |
| Y2 | S1 | COMP2048 Theory of Computing | CSSE2310 Computer Systems Principles & Programming | DECO1400 Introduction to Web Design | SCIE2100 Bioinformatics 1: Introduction |
| | S2 | COMP3506 Algorithms & Data Structures | COMP2140 Web & Mobile Programming | COSC2500 Numerical Methods in Computational Science | INFS2200 Relational Database Systems |
| Y3 | S1 | COMP3400 Functional & Logic Programming | COMP4403 Compilers and Interpreters | CSSE3100 Reasoning About Programs | COSC3000 Visualization, Computer Graphics & Data Analysis |
| | S2 | DECO3801 Design Computing Studio 3: Build | COSC3500 High-Performance Computing | | |

| 2 | Choose 1 remaining Primary Major Course |
|---|--|
| | for a free slot, accounting for prerequisites: |

| S1 | DECO2500 | | |
|-----------|----------|----------|--|
| S2 | DECO2500 | INFS2200 | |

| 3 | Note, there are no remaining Secondary Major |
|---|---|
| | Courses for this major. Go to Step 4. |

| S1 | _ | _ | _ |
|-----------|---|---|---|
| S2 | _ | _ | _ |



