## Recommended Study Pathway for BEng in Computer Science

| $1^{\text {st }}$ Year Fall | Credits | $1^{\text {st }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| U. Core English I | 3 | U. Core English II | 3 |
| U. Core QR: MATH 1013/1023 (Calculus I/Honors Calculus I) | 3 | U. Core QR: MATH 1014/1024 (Calculus II/Honors Calculus II) | 3 |
| Introductory Programming course: COMP 1021*/1022P*/1022Q** | 3 | U. Core S\&T: CHEM 1004/1010/1020 or LIFS 1901 or PHYS 1001/1112/1152/1312 | 2-3 |
| ENGG 1010 (Academic Orientation) | 0 | ENGG 1010 (Academic Orientation) | 0 |
|  | 9 |  | 8-9 |


| $2^{\text {nd }}$ Year Fall | Credits | $2^{\text {nd }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| LANG 2030 (Tech. Comm. I) | 3 | MATH 2411 / MATH 2421 / MATH 2431 / ELEC 2600 | 4 |
| MATH 2111 (Matrix Algebra) | 3 | / IEDA 2520 (Prob.) / IEDA 2540 (Stat.) | 3 |
| COMP 2011 (Intro. to OOP) | 4 | COMP 2012 (OOP \& Data Structure) | 4 |
| COMP 2711 (Discrete Math) | 4 | COMP 2611 (Computer Organization) | 4 |
| COMP 4900 (Academic and Professional Development) | 0 | COMP 1991 (Industrial Experience) | 0 |
| ENGG 2010 (Engineering Seminar Series)^ | 0 | COMP 4900 (Academic and Professional Development) | 0 |
|  |  | ENGG 2010 (Engineering Seminar Series)^ | 0 |
|  | 14 |  | 12 |


| $3^{\text {rd }}$ Year Fall | Credits | $3^{\text {rd }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| COMP 3111 (Software Engineering) | 4 | COMP Area Elective \# | 3 |
| COMP 3511 (Operating Systems) | 3 | COMP Area Elective | 3 |
| COMP 3711 (Design/Analysis Alg.) | 3 | COMP 1991 (Industrial Experience) | 0 |
| COMP 1991 (Industrial Experience) | 0 | COMP 4900 (Academic and Professional Development) | 0 |
| COMP 4900 (Academic and Professional Development) | 0 | ENGG 2010 (Engineering Seminar Series)^ | 0 |
| ENGG 2010 (Engineering Seminar Series)^ | 0 |  |  |
|  | 10 |  | 6 |


| $4^{\text {th }}$ Year Fall | Credits | $4^{\text {th }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| COMP 4981/H (FYP/FYT) | 3 | COMP 4981/H (FYP/FYT continued) | 3 |
| LANG 4030 (Tech Comm. II) | 3 | COMP Other-area Elective | 3 |
| COMP Area Elective | 3 | COMP Elective | 3 |
| COMP Other-area Elective | 3 | COMP 1991 (Industrial Experience) | 0 |
| COMP 1991 (Industrial Experience) | 0 | COMP 4900 (Academic and Professional Development) | 0 |
| COMP 4900 (Academic and Professional Development) | 0 |  |  |
|  | 12 |  | 9 |

[^0]Note:
(1) The program requires a minimum of 120 credits for graduation.
(2) At least 105-112 credits should come from the following: 15-18 credits from Engineering Fundamental Courses, 36-40 credits from COMP Required

Courses, 18 credits from COMP Electives, and 36 credits from UCore.
(3) A maximum of 6 credits may be double counted between UCore and Major.

## Recommended Normal Study Pathway for BEng in Computer Science Plus One-Semester Leave (e.g., Exchange-Out/Internship)

| $1^{\text {st }}$ Year Fall | Credits | $1^{\text {st }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| U. Core English I | 3 | U. Core English II | 3 |
| U. Core QR: MATH 1013/1023 (Calculus I/Honors Calculus I) | 3 | U. Core QR: MATH 1014/1024 (Calculus II/Honors Calculus II) | 3 |
| Introductory Programming course: COMP 1021*/1022P*/1022Q** | 3 | U. Core S\&T: CHEM 1004/1010/1020 or LIFS 1901 or PHYS 1001/1112/1152/1312 | 2-3 |
| ENGG 1010 (Academic Orientation) | 0 | ENGG 1010 (Academic Orientation) | 0 |
|  | 9 |  | 8-9 |


| $2^{\text {nd }}$ Year Fall | Credits | $2^{\text {nd }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| LANG 2030 (Tech. Comm. I) | 3 | MATH 2411 / MATH 2421 / MATH 2431 / ELEC 2600 | 4 |
| MATH 2111 (Matrix Algebra) | 3 | / IEDA 2520 (Prob.) / IEDA 2540 (Stat.) | 3 |
| COMP 2011 (Intro. to OOP) | 4 | COMP 2012 (OOP \& Data Structure) | 4 |
| COMP 2711 (Discrete Math) | 4 | COMP 2611 (Computer Organization) | 4 |
| COMP 4900 (Academic and Professional Development) | 0 | COMP 1991 (Industrial Experience) | 0 |
| ENGG 2010 (Engineering Seminar Series)^ | 0 | COMP 4900 (Academic and Professional Development) | 0 |
|  |  | ENGG 2010 (Engineering Seminar Series)^ | 0 |
|  | 14 |  | 12 |


| $3^{\text {rd }}$ Year Fall | Credits | $3^{\text {rd }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| COMP 3111 (Software Engineering) | 4 | LEAVE |  |
| COMP 3511 (Operating Systems) | 3 | (Assumption: no credits earned |  |
| COMP 3711 (Design/Analysis Alg.) | 3 | from the leave) |  |
| COMP Area Elective\# | 3 |  |  |
| COMP 1991 (Industrial Experience) | 0 |  |  |
| COMP 4900 (Academic and Professional Development) | 0 |  |  |
| ENGG 2010 (Engineering Seminar Series)^ | 0 |  |  |
|  | 13 |  | 0 |


| $4^{\text {th }}$ Year Fall | Credits | $4^{\text {th }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| COMP 4981/H (FYP/FYT) | 3 | COMP 4981/H (FYP/FYT continued) | 3 |
| LANG 4030 (Tech Comm. II) | 3 | COMP Area Elective | 3 |
| COMP Area Elective | 3 | COMP Other-area Elective | 3 |
| COMP Other-area Elective | 3 | COMP Elective | 3 |
| COMP 1991 (Industrial Experience) | 0 | COMP 1991 (Industrial Experience) | 0 |
| COMP 4900 (Academic and Professional Development) | 0 | COMP 4900 (Academic and Professional Development) | 0 |
|  | 12 |  | 12 |

[^1]1. For COMP entrants of 2014-15 or after.
\# Students must take 3 COMP courses from one area and 2 courses from other area(s).
Note:
(1) The program requires a minimum of 120 credits forgraduation.
(2) At least 105-112 credits should come from the following: 15-18 credits from Engineering Fundamental Courses, 36-40 credits from COMP Required Courses, 18 credits from COMP Electives, and 36 credits from UCore.
(3) A maximum of 6 credits may be double counted between UCore and Major.

Recommended Normal Study Pathway for BEng in Computer Science Plus a Minor

| $1^{\text {st }}$ Year Fall | Credits | $1^{\text {st }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| U. Core English I | 3 | U. Core English II | 3 |
| U. Core QR: MATH 1013/1023 (Calculus I/Honors Calculus I) | 3 | U. Core QR: MATH 1014/1024 (Calculus II/Honors Calculus II) | 3 |
| Introductory Programming course: COMP 1021*/1022P*/1022Q** | 3 | U. Core S\&T: CHEM 1004/1010/1020 or LIFS 1901 or PHYS 1001/1112/1152/1312 | 2-3 |
| ENGG 1010 (Academic Orientation) | 0 | ENGG 1010 (Academic Orientation) | 0 |
|  | 9 |  | 8-9 |


| $2^{\text {nd }}$ Year Fall | Credits | $2^{\text {nd }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| LANG 2030 (Tech. Comm. I) | 3 | MATH 2411 / MATH 2421 / MATH 2431 / ELEC 2600 | 4 |
| MATH 2111 (Matrix Algebra) | 3 | / IEDA 2520 (Prob.) / IEDA 2540 (Stat.) | 3 |
| COMP 2011 (Intro. to OOP) | 4 | COMP 2012 (OOP \& Data Structure) | 4 |
| COMP 2711 (Discrete Math) | 4 | COMP 2611 (Computer Organization) | 4 |
| COMP 4900 (Academic and Professional Development) | 0 | Minor Elective | 3 |
| ENGG 2010 (Engineering Seminar Series)^ | 0 | COMP 1991 (Industrial Experience) | 0 |
|  |  | COMP 4900 (Academic and Professional Development) | 0 |
|  |  | ENGG 2010 (Engineering Seminar Series)^ | 0 |
|  | 14 |  | 15 |


| $3^{\text {rd }}$ Year Fall | Credits | $3^{\text {rd }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| COMP 3111 (Software Engineering) | 4 | COMP Area Elective \# | 3 |
| COMP 3511 (Operating Systems) | 3 | COMP Area Elective | 3 |
| COMP 3711 (Design/Analysis Alg.) | 3 | Minor Elective | 3 |
| Minor Elective | 3 | Minor Elective | 3 |
| COMP 1991 (Industrial Experience) | 0 | COMP 1991 (Industrial Experience) | 0 |
| COMP 4900 (Academic and Professional Development) | 0 | COMP 4900 (Academic and Professional Development) | 0 |
| ENGG 2010 (Engineering Seminar Series)^ | 0 | ENGG 2010 (Engineering Seminar Series)^ | 0 |
|  | 13 |  | 12 |


| $4^{\text {th }}$ Year Fall | Credits | $4^{\text {th }}$ Year Spring | Credits |
| :---: | :---: | :---: | :---: |
| COMP 4981/H (FYP/FYT) | 3 | COMP 4981/H (FYP/FYT continued) | 3 |
| LANG 4030 (Tech Comm. II) | 3 | COMP Other-area Elective | 3 |
| COMP Area Elective | 3 | COMP Elective | 3 |
| COMP Other-area Elective | 3 | Minor Elective | 3 |
| Minor Elective | 3 | COMP 1991 (Industrial Experience) | 0 |
| COMP 1991 (Industrial Experience) | 0 | COMP 4900 (Academic and Professional Development) | 0 |
| COMP 4900 (Academic and Professional Development) | 0 |  |  |
|  | 15 |  | 12 |

* COMP students may use COMP 1021/1022P to fulfill the Engineering Introduction course requirement.
** COMP 1022Q was last offered in 2019-20 and was deleted subsequently.
1: For COMP entrants of 2014-15 or after.
\# Students must take 3 COMP courses from one area and 2 courses from other area(s).
Note:
(1) The program requires a minimum of 120 credits for graduation.
(2) At least 105-112 credits should come from the following: 15-18 credits from Engineering Fundamental Courses, 36-40 credits from COMP Required Courses, 18 credits from COMP Electives, and 36 credits from UCore.
(3) A maximum of 6 credits may be double counted between UCore and Major.


[^0]:    * COMP students may use COMP 1021/1022P to fulfill the Engineering Introduction course requirement.
    ** COMP 1022Q was last offered in 2019-20 and was deleted subsequently.
    ^: For COMP entrants of 2014-15 or after.
    \# Students must take 3 COMP courses from one area and 2 courses from other area(s).

[^1]:    * COMP students may use COMP 1021/1022P to fulfill the Engineering Introduction course requirement.
    ** COMP 1022Q was last offered in 2019-20 and was deleted subsequently.

