



Bachelor of Computing Science Checklist

GUIDELINES

ENGLISH & MATH PLACEMENT

ENGLISH

| IF YOU TOOK | YOUR GRADE | CHOOSE | |
|--|---|-------------|--|
| English Studies 12 or English First Peoples 12 or ESAL 0570 and 0580 or ENGL 0600 or ENGL 0620 | 73% or higher 65% or higher 65% or higher | } ENGL 1100 | |
| English Studies 12 or English First Peoples 12 | Below 73% | | → ACCUPLACER Assessment or ENGL 0600 or ENGL 0620 |

MATHEMATICS

| IF YOU TOOK | YOUR GRADE (within the last 2 years) | CHOOSE |
|-----------------|--------------------------------------|--|
| Pre-Calculus 12 | 67% or higher | → MATH 1650 or MATH 1700 |
| Pre-Calculus 12 | Below 67% | → MATH 1000 or MATH 0630 or MATH 0600+0610 |
| Foundations 12 | 67% or higher | → MATH 1650 or MATH 1700 |
| Foundations 12 | Below 67% | → MATH 0650 |

SUGGESTED COURSE PLAN

YEAR 1

| SEMESTER 1 | SEMESTER 2 |
|---|--|
| ENGL 1100: Intro. to University Writing | CMNS 1290: Intro. to Professional Writing |
| COMP 1130: Computer Programming 1 | COMP 1230: Computer Programming 2 |
| MATH 1700: Discrete Mathematics 1 | MATH 1650: Mathematics for Computing Science |
| Elective – Non-Computing | Elective – Non-Science |
| Elective – Non-Computing | Elective – Non-Computing |

YEAR 2

| SEMESTER 1 | SEMESTER 2 |
|--|--|
| COMP 2130: Intro. to Computing Systems | COMP 2210: Programming Methods |
| COMP 2160: Mobile Application Development 1 | COMP 2680: Web Site Design and Development |
| COMP 2230: Data Structure, Algorithm Analysis etc. | COMP 2920: Software Architecture & Design |
| Elective – General | Elective – General |
| Elective – Indigenous Knowledge and Ways (ILO) | Elective – Lifelong Learning (ILO) |

A grade of C or higher is required in all prerequisite COMP and MATH courses

***NEW** Institutional Learning Outcomes (ILO) Requirements – your [Degree Works Program Plan](#) is available through [myTRU](#)



THOMPSON RIVERS UNIVERSITY

Academic Advising
E: advising@tru.ca
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BACHELOR OF COMPUTING SCIENCE DEGREE CHECKSHEET (120 credits)

| 1000 & 2000 Level CORE courses (36 credits) | | General ELECTIVES (42 credits) 1000-4000 Level | | | 3000/4000 Level COMP courses (42 credits) | |
|--|-------|---|--------|-------|---|-------|
| 1000 Level CORE courses | | ELECTIVE courses | | | 3000-4000 Level CORE courses | |
| COURSE | GRADE | REQUIREMENTS | COURSE | GRADE | COURSE | GRADE |
| COMP 1130 – Computer Programming 1 | | Non-Science Elective | | | COMP 3260 – Computer Network Security | |
| COMP 1230 – Computer Programming 2 | | Non-Computing Elective | | | COMP 3270 – Computer Networks | |
| MATH 1650 – Math for Computing Science | | Non-Computing Elective | | | COMP 3410 – Operating Systems | |
| MATH 1700 – Discrete Mathematics | | Non-Computing Elective | | | COMP 3450 – Human-Computer Interaction | |
| ENGL 1100 – Intro. to University Writing | | General Elective | | | COMP 3520 – Software Engineering | |
| CMNS 1290 – Intro. to Professional Writing | | General Elective | | | COMP 3540 – Advanced Web Design & Prog. | |
| 2000 Level CORE courses | | General Elective | | | COMP 3610 – Database Systems | |
| COURSE | GRADE | General Elective | | | COMP 3710 – Applied Artificial Intelligence | |
| COMP 2130 – Intro. to Computer Systems | | General Elective | | | COMP 4910 – Computer Science Project | |
| COMP 2160 – Mobile App Development 1 | | General Elective | | | COMP 4930 – Prof. & Ethical Issues in Comp Sci. | |
| COMP 2210 – Programming Methods | | General Elective | | | 3000-4000 COMP | |
| COMP 2230 – Data Structure, Algorithm Analysis | | Elective – Lifelong Learning (ILO) | | | 3000-4000 COMP | |
| COMP 2680 – Web Site Design & Develop. | | Elective – Indigenous Knowledge (ILO) | | | 3000-4000 COMP | |
| COMP 2920 – Software Architecture & Design | | General Elective – 3000/4000 level | | | 3000-4000 COMP | |
| | | *** NOTE: Only 1 of above electives must be 3000/4000 level *** | | | | |

A grade of C or higher is required in all prerequisite COMP and MATH courses

KEEP IN MIND

Course Load: Transitioning to university can be challenging and many students choose to take a lighter course load. Please speak with Academic Advising to discuss sequencing and workload. Resources: More about the program requirements at tru.ca/current/enrolment-services/calendar.html. More about course prerequisites, co-requisites, and course times at: tru.ca/current/enrolment-services/course-schedule.html

CORE COURSE PREREQUISITES

| CORE COURSES | | PREREQUISITES |
|--------------|---|---|
| ENGL 1100 | Introduction to University Writing | English Studies 12 or English First Peoples 12 with min. 73% or equivalent |
| COMP 1130 | Computer Programming 1 | None |
| COMP 1230 | Computer Programming 2 | C or better in COMP 1130 |
| CMNS 1290 | Introduction to Professional Writing | None |
| MATH 1650 | Mathematics for Computing Science | Pre-calc 12 minimum C+ or Foundations of Math 12 minimum C+ or MATH 0600 minimum B, or MATH 0610 minimum C- or MATH 0630 minimum C- or MATH 0650 minimum C- or MATH 1000 minimum C- |
| MATH 1700 | Discrete Mathematics 1 | Pre-calc 12 minimum C+ or Foundations of Math 12 minimum C+ or MATH 0600 minimum B, or MATH 0610 minimum C- or MATH 0630 minimum C- or MATH 0650 minimum C- or MATH 1000 minimum C- |
| COMP 2680 | Website Design & Development | C or better in COMP 1130 |
| COMP 2130 | Intro. to Computer Systems | C or better in COMP 1230 |
| COMP 2160 | Mobile Applications Development 1 | C or better in COMP 1230 |
| COMP 2230 | Data Structure, Algorithm Analysis & Design | C or better in COMP 1230 or COMP 2120 or COMP 1240 and MATH 1700 or COMP 1390 |
| COMP 2210 | Programming Methods | C or better in COMP 1230 |
| COMP 2920 | Software Architecture and Design | C or better in COMP 1230 |

ELECTIVES

| | | | |
|----------------------------------|--------------------------------------|---------------------------------------|-------------------------------|
| Accounting (ACCT) | 2210, 2250, 2280 | Japanese (JAPA) | All |
| Agricultural Science (AGSC) | 2100, 2200 | Journalism (JOUR) | All |
| Anthropology (ANTH) | All | Linguistics (LING) | 2010, 2020 |
| Archaeology (ARCH) | All | Management (MNGT) | 1710 |
| Astronomy (ASTR) | All | Management Information Systems (MIST) | 2610 |
| Biology (BIOL) | All | Marketing (MKTG) | 2430 |
| Business Law (BLAW) | 2910 | Mathematics (MATH) | All |
| Chemistry (CHEM) | All | Modern Language (MLAN) | 1110, 1210, 2700 |
| Chinese (CHIN) | 1110, 1210 | Music (MUSI) (Choir) | All |
| Communications (CMNS) | All | Natural Resource Science (NRSC) | All |
| Computing (COMP) | 1110 (take prior to COMP 2210), 1810 | Organizational Behaviour (ORGB) | 2810 |
| Criminology (CRIM) | All | Philosophy (PHIL) | All |
| Creative Writing (CRWR) | All | Physical Education (Activity) | All 1000 level |
| Economics (ECON) | All | Physical Education (Theory) | All |
| English (ENGL) | All | Physics (PHYS) | All |
| Event (EVNT) | All (except 2500) | Political Studies (POLI) | All |
| Film (FILM) | All | Psychology (PSYC) | All |
| Finance (FNCE) | 2120 | Service & Community Learning (SRCL) | 1000 |
| First Nations Language (FNLG) | All | Social Work (SOCW) | 2060, 2120 |
| French (FRAN) | All | Sociology (SOCL) | All |
| Geography (GEOG) | All | Spanish (SPAN) | All |
| Geology (GEOL) | All | Speech (SPEE) | All |
| German (GERM) | All | Statistics (STAT) | All |
| Health (HLTH) | All | Student Success (STSS) | All |
| History (HIST) | All | Theatre (THTR) | All |
| Hotel Management (HMGT) | All (except 2500) | Tourism (TMGT) | All |
| Human Resource Management (HRMN) | 2820 | Visual Arts (VISA) | All 1000 level and 2000 level |
| Indigenous Studies (INDG) | 2100 | | |