Academic Advising

CS Curriculum & Career

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Agenda

- Core Courses
- Elective Space
- 2nd Major / Minor
- Elective Courses
- Career
- Welcome Mixer
Programme Structure

- Free Electives: 23%
- CS Electives: 17%
- Industrial Training: 3%
- Complementary Studies: 3%
- UG5 Requirements: 12%
- Core Courses: 42%

CS = 12.5 + 5 + 1 = 18.5
Free Electives = 7
CS Core

Maths
- ENGG1003/1004 Maths I/IA
- ENGG1007 Found. Of CS

Theory
- CSIS1119 Data Structure
- CSIS0250 Algorithms

Programming
- ENGG1002 Comp Programming
- CSIS1123 Prog Tech & Tools

Systems
- CSIS1120 Comp Org
- CSIS0230 Principles of OS
- CSIS0234 Comp Networks

Information Management
- CSIS0278 Database

Develop your logic mind set and analytical skill

Have prog., theory & little maths
**Elective Space**

- **CompSc + Free**
  - 5 + 7

  - **Taking minor / 2\textsuperscript{nd} major / double**
    - **Yes**
      - Taking minor (6 courses)
        - Yes
          - 5 + 7
        - No
          - 5 + 1
    - **No**
      - (at least 5 CS electives, at most 12 CS electives)
No

Taking 2nd major
(10-12 courses)

Yes

5 + 0
(-3 → -5)

No

Taking double
(9 courses)

5 + 0
(-2)

Overload at least 3 courses

Overload 2 courses
2nd Major / Minor

• Numerous choices
• May have admission prerequisite/study restriction
• In principle, no need to apply for taking
• Download and study the syllabus of the Major or Minor
  ▪ Understand the syllabus
    ▪ How many core courses? When are they being offered?
    ▪ Observe the pre-requisite requirements and restrictions
    ▪ Beware of the timetable issue
• Recommend to consult corresponding Advisor(s) of the offering department/faculty before making your course selection
Examples

- **Majors – Risk Management, Statistics**
  - AL Pure Mathematics

- **Majors – Mathematics**
  - Add Maths & AS Maths and Stats OR
  - AL Pure Mathematics

- **Minor – Actuarial Studies**
  - AL Pure Maths or AS Maths and Stats

- **Minor or Major – Economics, Finance**
  - Students are required to obtain at least an CGPA of 3.0 in their first year of study in order to continue
Sample Study Plans

- URL of the Advising Page

The samples serve as illustrative purpose. Beware of the pre-requisite and time-tabling issues. Students who opt for a 2nd Major or Minor are responsible for planning for their own course of studies.
FAQs Related to 2nd Major / Minor

• When should I start taking courses?
  ▪ For 2nd Major: better start taking courses on 1st semester
  ▪ For Minor, check about the offering time of those Introductory courses

• When do I have to register for the option?
  ▪ If you opt for 2nd Major / Minor, you just have to declare it after completing the first year
  ▪ i.e., during the course enrollment and add/drop periods of 2013 summer (August-September)

• Can I change from a 2nd Major to a Minor?
  ▪ In principle, yes
  ▪ Most of the Introductory courses for 2nd Major and Minor are similar or the same.
  ▪ You can make changes to the declaration of Minor or 2nd Major during the Course enrollment and ADD/DROP period
CS Elective Courses

- Total 3x courses in the list
- Only 20+ courses are frequently offered

- Can take up to two MSc(CompSc) courses as electives
  - each course is equivalent to a 3 credit-unit level-2 course
  - subject to the approval of the Head of Department
  - usually taking on the 3rd year
Elective Courses

- CSIS0323 Adv DB
- CSIS0317 Comp Vision
- CSIS0270 A.I.
- CSIS0271 Graphics
- CSIS0407 Sci Computing
- CSIS0235 Compiler
- CSIS0259 PPL
- CSIS0351 Ad. Algo Anal
- CSIS0329 Game Design
- CSIS0320 ECommerce
- CSIS0330 Mobile App Design
- CSIS0315 Multimedia
- CSIS0396 OOP & Java

Theory, Concept, Principle
Development
Application
Elective Courses

- **Theory, Concept, Principle**
  - CSIS0231 Comp Arch
  - CSIS0327 Security
  - CSIS0328 Wireless & Mobile

- **Development**
  - CSIS0402 Dist Computing
  - CSIS0322 Internet & WWW

- **Application**
  - CSIS0297 Intro SE
  - CSIS0403 Impl, Test, Maint
  - CSIS0311 Legal Aspect
  - CSIS0404 Proj Management
Career

• Four major paths
  ▪ Design and implementing software
  ▪ Planning & managing organization technology infrastructure
  ▪ Further studies
  ▪ Others
Career

- Design and implementing software

Web App Development  Mobile Computing  Game Programming

Programmer  Software Architect  Consultant  R & D Engineer  Developer

Sys Analyst  Software Engineer

- Intro SE, OOP & Java, Security
  - Impl Test & Main, Proj Mgm, Legal
  - EComm, Dist Comp, WWW, Topics in Comp Sys
  - C Graphics, MultiM, Game, A.I.
Career

- Planning & managing organization technology infrastructure

- Comp Arch, Security, OOP & Java
  - Wireless, Dist Comp, WWW
  - MultiM, EComm, Legal

IT Admin | IT Officer | IT Support | Consulting IT Specialist
Career

• Further Studies – Research
  ▪ Devising new ways to use computer
  ▪ Developing effective ways to solve computing problem
  ▪ Comp Arch, PPL, Graphics, Adv Alg
    ▪ Comp Vision, Compiler, Sci Comp, Adv DB
    ▪ MSc courses
    ▪ Minor in Maths