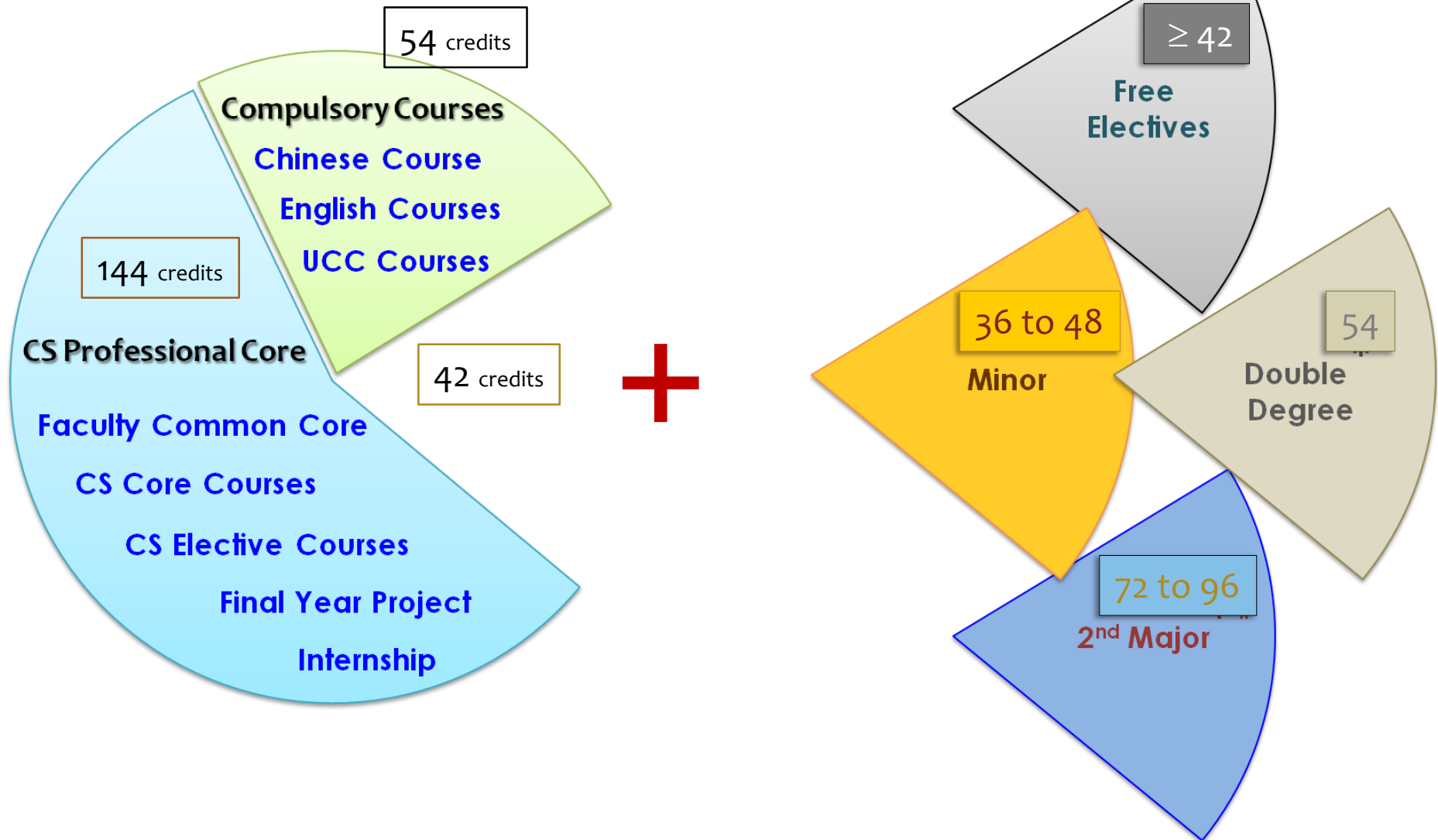# Academic Advising

CS Curriculum & Career

DR. ANTHONY TAM
ACADEMIC ADVISOR
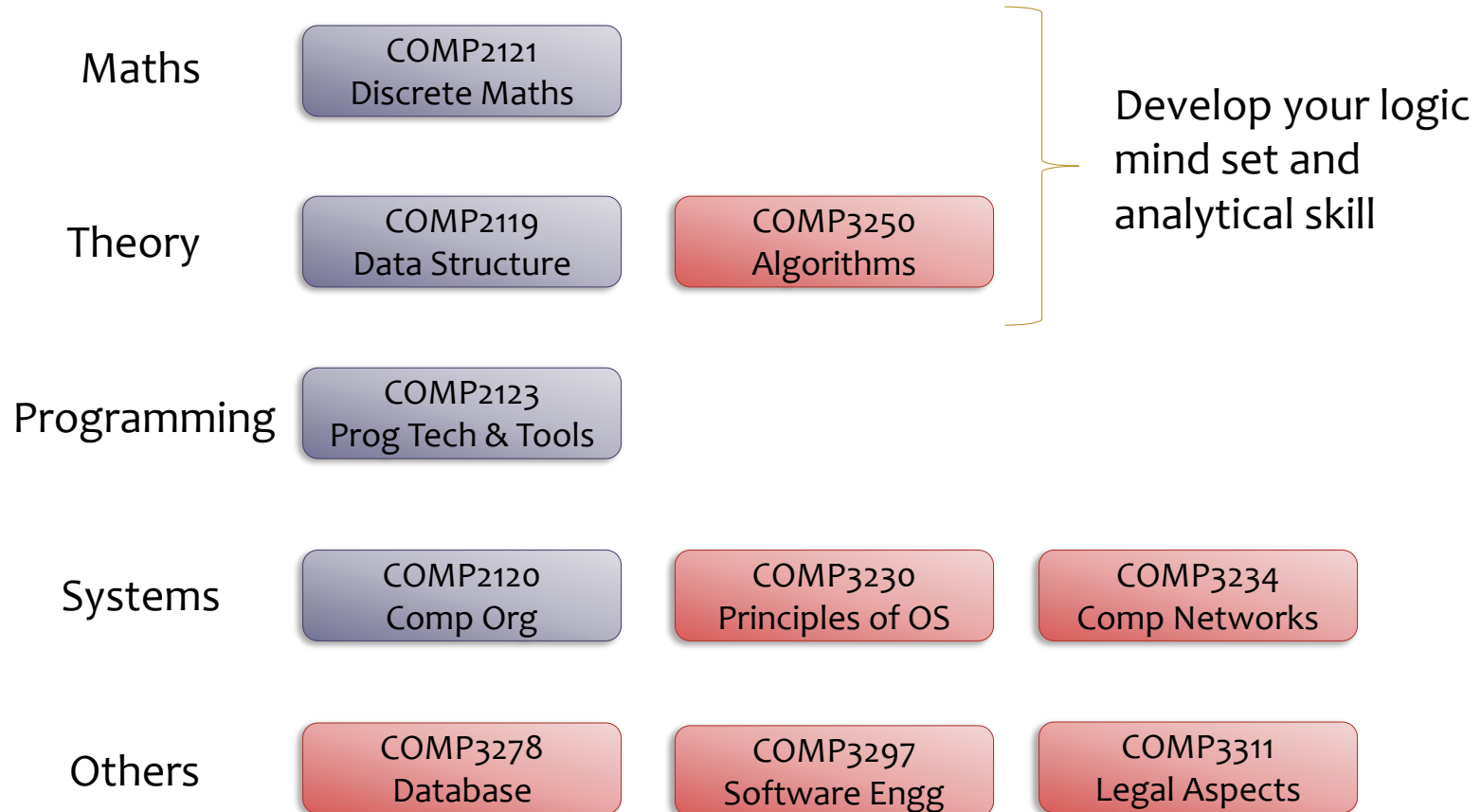
Agenda

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

Programme Structure

54 credits

Compulsory Courses

Chinese Course

English Courses

UCC Courses

144 credits

CS Professional Core

Faculty Common Core

CS Core Courses

CS Elective Courses

Final Year Project

Internship

42 credits

+

≥ 42

Free Electives

36 to 48

Minor

54

Double Degree

72 to 96

2ⁿᵈ Major

CS Core

Maths
COMP2121
Discrete Maths

Develop your logic mind set and analytical skill

Theory
COMP2119
Data Structure

COMP3250
Algorithms

Programming
COMP2123
Prog Tech & Tools

Systems
COMP2120
Comp Org

COMP3230
Principles of OS

COMP3234
Comp Networks

Others
COMP3278
Database

COMP3297
Software Engg

COMP3311
Legal Aspects

Elective Space

CompSc + Free
5 + 7

Taking minor / 2nd major / double

No → 5 + 7

(at least 5 CS electives,
at most 12 CS electives)

Yes →

Taking minor
(6 to 7 courses)

Yes → 5 + 1 or 0

No →
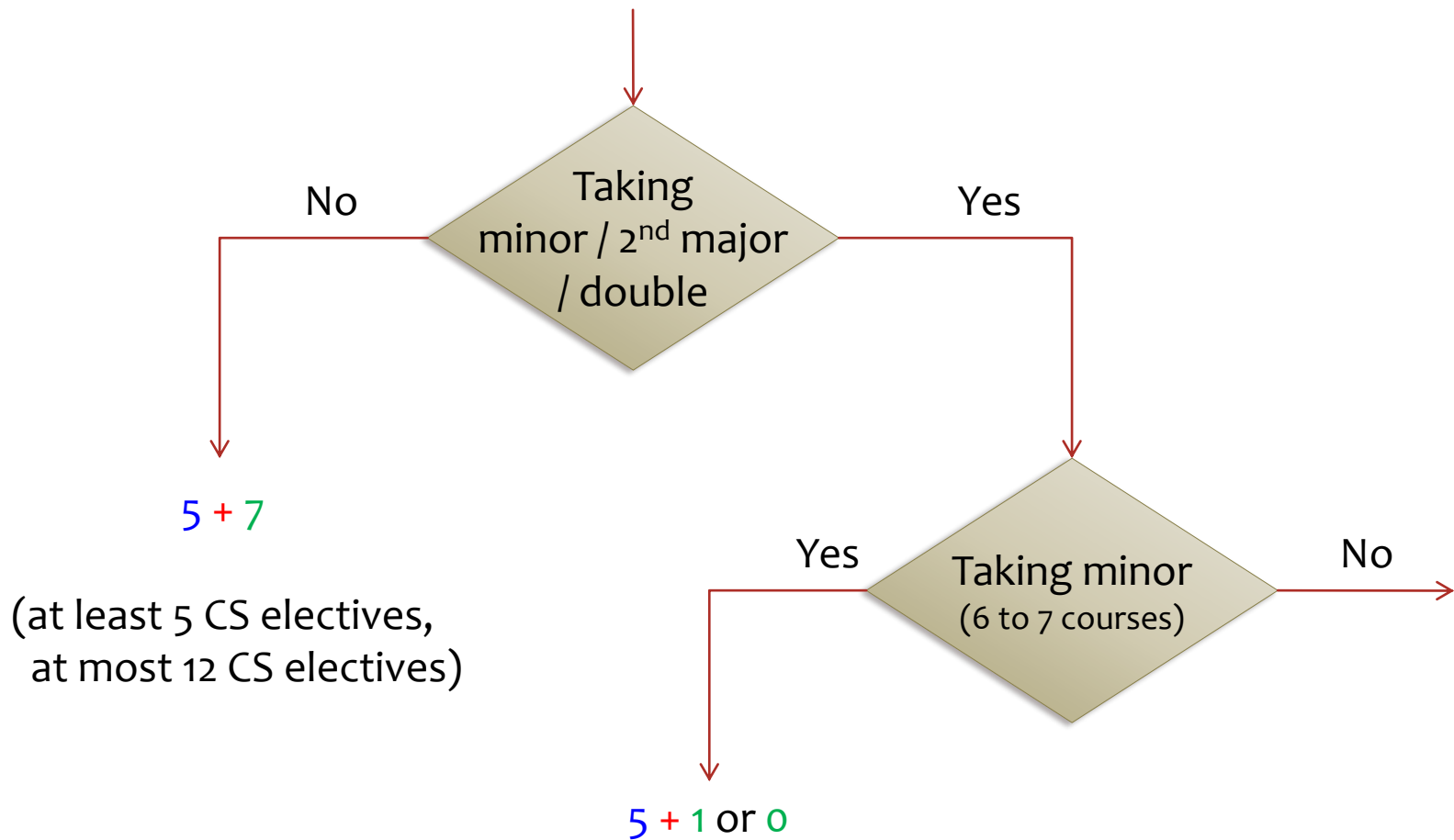
Elective Space
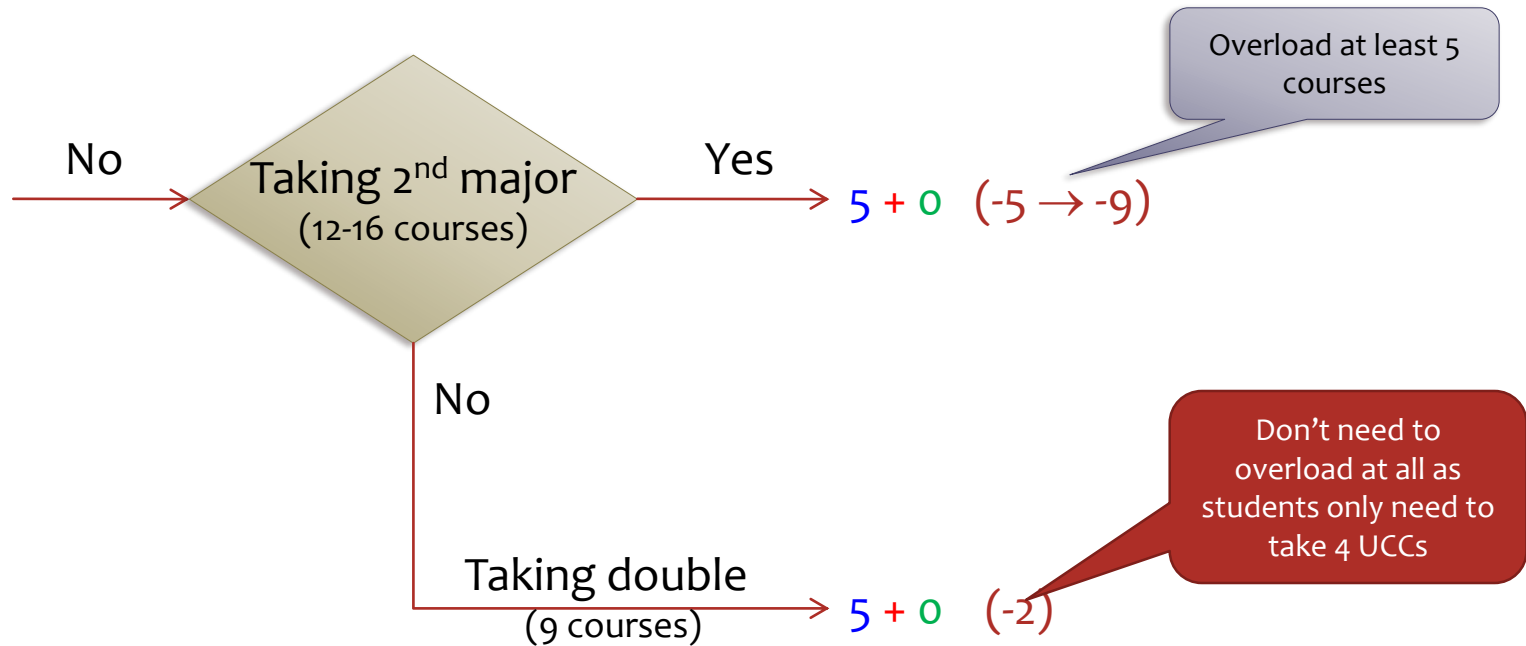
2nd Major / Minor

- Numerous choices
  - http://aao.hku.hk/fy3/plan-of-study/major-and-minor/
- 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 Temporary Advisor(s) of the offering department/faculty before making your course selection

Examples

- Majors – Mathematics, Risk Management, Statistics
  - Level 2 or above in Ext. Mod. 1 or 2
- Minor – Actuarial Studies, Computational & Financial Mathematics
  - Level 2 or above in Ext. Mod. 1 or 2
- Minor or Major – Economics, Finance
  - Students are required to obtain at least an CGPA of 3.0 at the end of their second year of study in order to continue

Sample Study Plans

- URL of the Advising Page
  - http://www.cs.hku.hk/programme/beng-cs/advising/2012-13/studyplan.jsp

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.
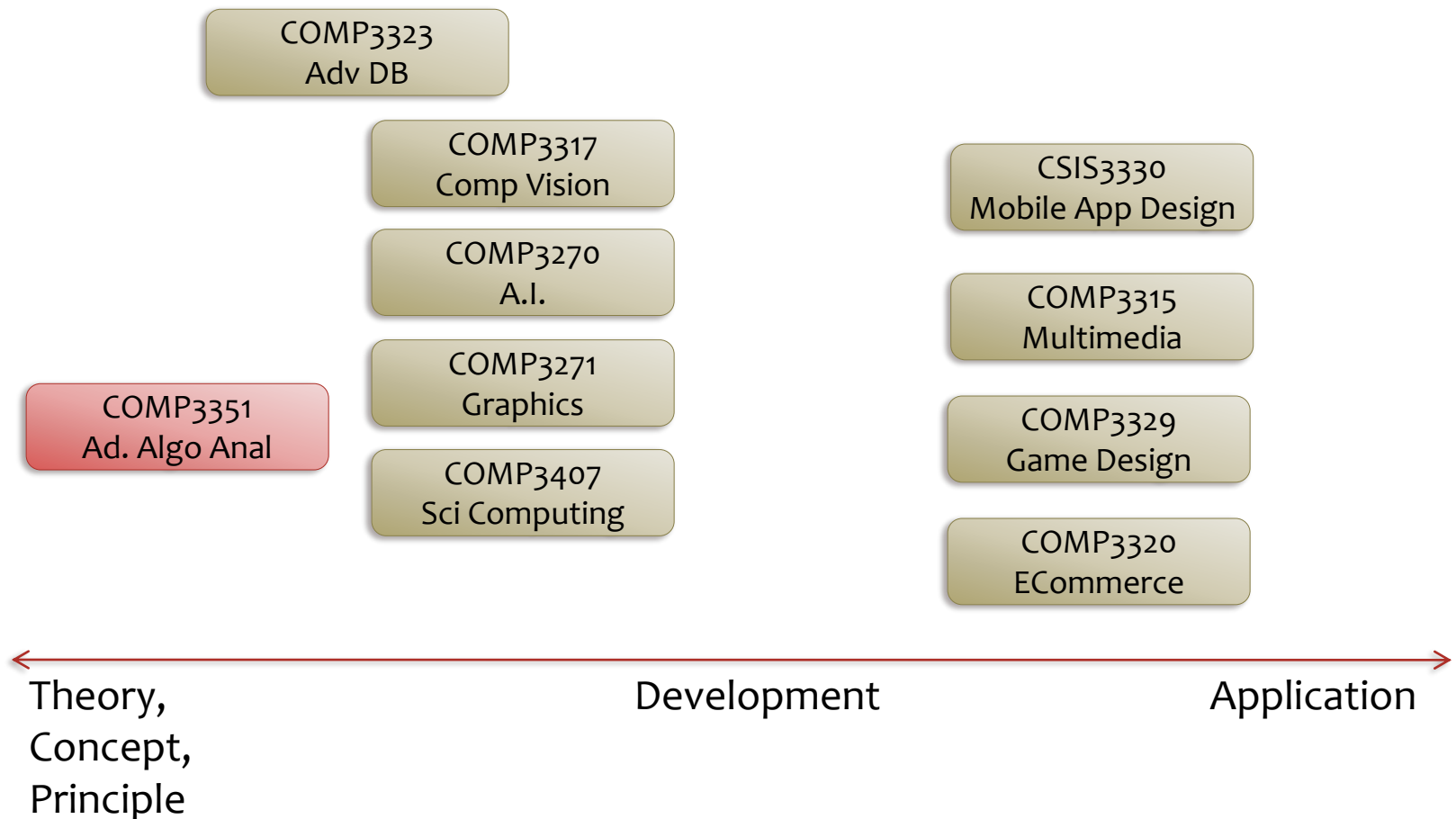
FAQs Related to 2nd Major / Minor

- When should I start taking courses?
  - For 2nd Major: better start taking courses on 1st year
  - For Minor, can start on 2nd year

- 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
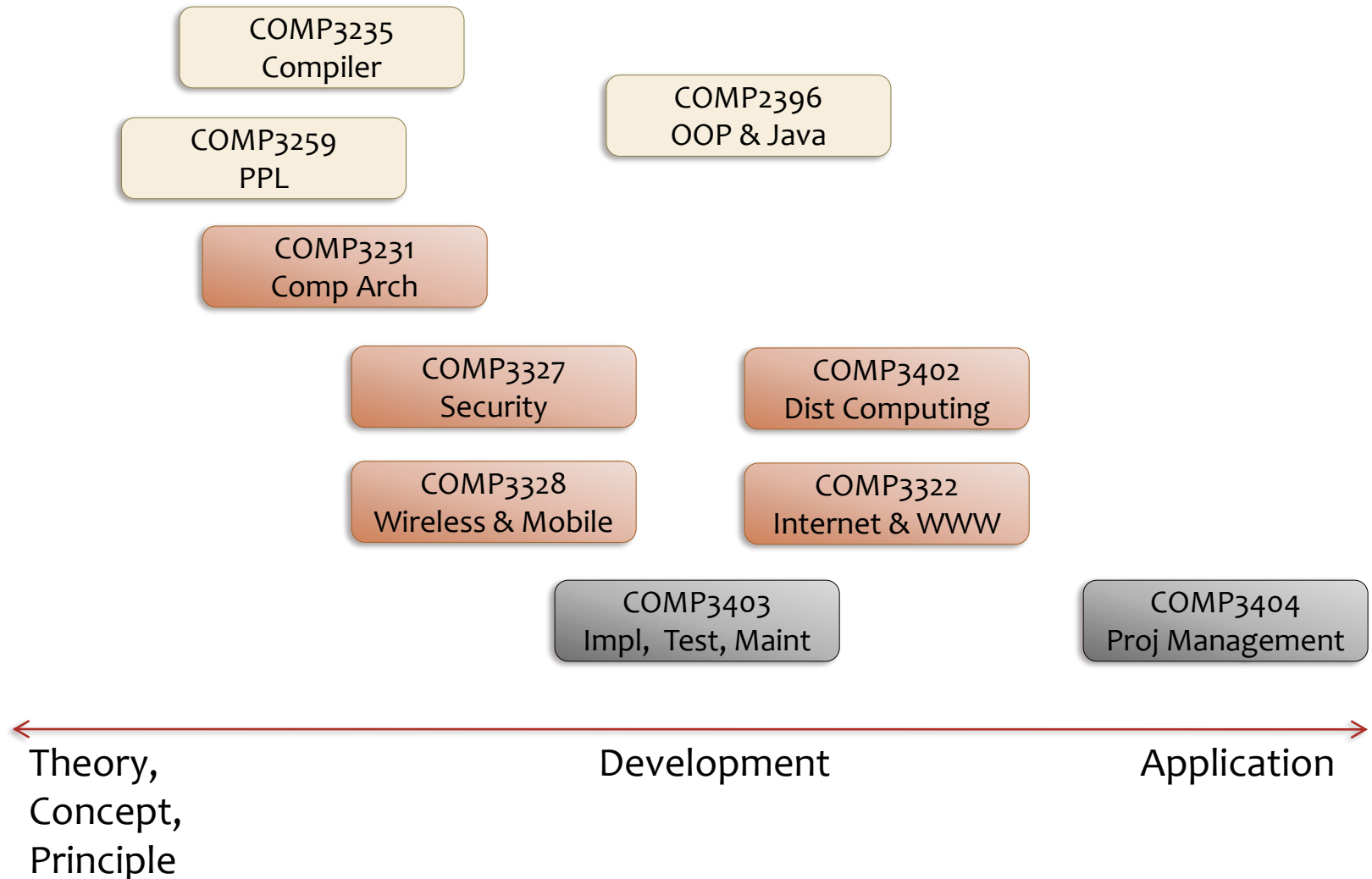
CS Elective Courses

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

- Can take up to two MSc(CompSc) courses as electives
  - subject to the approval of the Head of Department
  - An MSc(CompSc) course is equivalent to a 6-credit course, by undertaking additional workload than an MSc(CompSc) student in the course concerned
    - as each MSc course is of 3 credits only
  - usually taking on the 4th year

Elective Courses

COMP3323
Adv DB

COMP3317
Comp Vision

CSIS3330
Mobile App Design

COMP3270
A.I.

COMP3315
Multimedia

COMP3351
Ad. Algo Anal

COMP3271
Graphics

COMP3329
Game Design

COMP3407
Sci Computing

COMP3320
ECommerce

Theory,
Concept,
Principle

Development

Application

Elective Courses

COMP3235
Compiler

COMP3259
PPL

COMP3231
Comp Arch

COMP2396
OOP & Java

COMP3327
Security

COMP3328
Wireless & Mobile

COMP3402
Dist Computing

COMP3322
Internet & WWW

COMP3403
Impl, Test, Maint

COMP3404
Proj Management

Theory,
Concept,
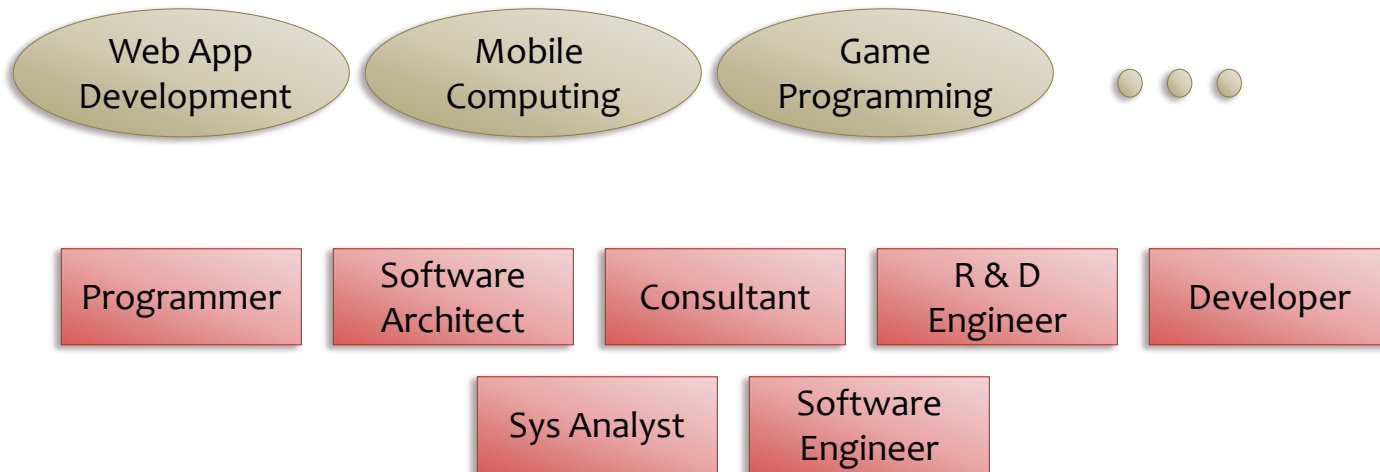Principle

Development

Application

Career

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

Career

- Design and implementing software

- 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

IT Admin	IT Officer	IT Support	Consulting IT Specialist

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

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