Information Session for CEG2 Students
- Technical Electives Requirements
- Industrial Attachment

29 March 2016, 1pm @ LT3

A/Prof Bharadwaj Veeravalli elebv@nus.edu.sg
CEG2 & CEG3 Coordinator
Joint Academic Committee (JAC)
Department of Electrical & Computer Engineering (ECE)

THREE groups of students going to CEG3 in AY2016/17

- CEG1, AY2014/15 intake
- Common Engrg ENG1, AY2014/15 intake
  (streamed to CEG2 in AY2015/16)
- CEG2 Poly, AY2015/16 intake
**B.Eng. (CEG) Curriculum Structure**

**AY2014/15 intake**

<table>
<thead>
<tr>
<th>University Level Requirements (ULR)</th>
<th>CEG Programme / Major Requirements</th>
<th>Unrestricted Elective Modules (UEM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEK1549 + GEM from Subj Grp B - 8 MCs</td>
<td>Faculty reqs: CS2101, EG2401 &amp; HR2002 - 10 MCs</td>
<td>16 MCs (Offered by Any Faculty/School)</td>
</tr>
<tr>
<td>1 x Singapore Studies (SS) - 4 MCs</td>
<td>Level 1000 Mathematics, Science &amp; Technology - 30 MCs</td>
<td></td>
</tr>
<tr>
<td>2 x Breadth modules (NOT offered by FoE/SoC) - 8 MCs</td>
<td>Other core modules - 38 MCs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CEG core projects - 22 MCs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Industrial Attachment (6-months) - 12 MCs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CEG Technical Electives - 12 MCs</td>
<td></td>
</tr>
<tr>
<td>20 MCs</td>
<td>124 MCs</td>
<td>16 MCs</td>
</tr>
</tbody>
</table>

**Total (minimum) MCs for graduation = 160**

Refer to the respective File For Graduation (FFG) document at [http://www.ceg.nus.edu.sg/students/FFG_Checklists.html](http://www.ceg.nus.edu.sg/students/FFG_Checklists.html)

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**CEG Modular Requirements and Credits**

**AY2014/15 intake**

<table>
<thead>
<tr>
<th>Modular Requirements</th>
<th>MCs</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNIVERSITY LEVEL REQUIREMENTS</td>
<td>20</td>
</tr>
<tr>
<td>General Education Module - GEN1049 Critical Thinking &amp; Writing - 1 x GEM from Subj Grp B: Humanities &amp; Social Sciences</td>
<td>8</td>
</tr>
<tr>
<td>Singapore Studies (SS) Module</td>
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</tr>
<tr>
<td>Breadth: Modules NOT offered by FoE and SoC</td>
<td>8</td>
</tr>
<tr>
<td>UNRESTRICTED ELECTIVE MODULES</td>
<td>16</td>
</tr>
<tr>
<td>PROGRAMME REQUIREMENTS</td>
<td>124</td>
</tr>
<tr>
<td>Faculty Requirements</td>
<td>10</td>
</tr>
<tr>
<td>CS2101 Effective Comm for Computing/Professionals</td>
<td>4</td>
</tr>
<tr>
<td>EG2401 Engineering Professionalism</td>
<td>3</td>
</tr>
<tr>
<td>HR2002 Human Capital in Organizations</td>
<td>3</td>
</tr>
<tr>
<td>English (ES1000/ES1102)*</td>
<td>5</td>
</tr>
<tr>
<td>CEG Core Modules</td>
<td>68</td>
</tr>
<tr>
<td>CG1101 Introduction to Computer Engineering</td>
<td>2</td>
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<tr>
<td>CG1106 Computer Organization</td>
<td>4</td>
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<tr>
<td>CG2223 Signals &amp; Systems</td>
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<tr>
<td>CG2271 Real-time Operating Systems</td>
<td>4</td>
</tr>
<tr>
<td>CG3207 Computer Architecture</td>
<td>4</td>
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<tr>
<td>CS1010 Programming Methodology</td>
<td>4</td>
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<tr>
<td>CS1020 Data Structures and Algorithms I</td>
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<tr>
<td>CS1221 Discrete Structures</td>
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<tr>
<td>CS2107 Software Engineering</td>
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<tr>
<td>EE2020 Digital Fundamentals</td>
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<tr>
<td>EE2021 Devices &amp; Circuits</td>
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<tr>
<td>EE2024 Programming for Computer Interfaces</td>
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<tr>
<td>EE3204 Computer Communication Networks I</td>
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<tr>
<td>MA1505 Mathematics I</td>
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<tr>
<td>MA1506 Mathematics II</td>
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<td>TC1432 Physics I</td>
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<tr>
<td>ST2304 Probability &amp; Statistics</td>
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<tr>
<td>Industrial Attachment (CP3880 OR EG3601)</td>
<td>12</td>
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<tr>
<td>CEG Project Modules</td>
<td>22</td>
</tr>
<tr>
<td>CG3002 Embedded Systems Design Project</td>
<td>6</td>
</tr>
<tr>
<td>EE3031 Innovation &amp; Enterprise I</td>
<td>4</td>
</tr>
<tr>
<td>CG4201 B.Eng. Dissertation (over 2 semesters)</td>
<td>12</td>
</tr>
<tr>
<td>CEG Technical Electives</td>
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</tbody>
</table>

**TOTAL 160**

* For students who have not passed or been exempted from the Qualifying English Test at the time of admission.

[http://www.ceg.nus.edu.sg/curriculum/requirements.html](http://www.ceg.nus.edu.sg/curriculum/requirements.html)

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# B.Eng. (CEG) Curriculum Structure

## AY2015/16 intake

### University Level Requirements (ULR)
- **One General Education Module (GEM) from each of the five pillars:**
  - Human Cultures
  - Asking Questions
  - Quantitative Reasoning
  - Singapore Studies
  - Thinking and Expression

### CEG Programme / Major Requirements
- **Faculty reqs:** CS2101, EG2401 & HR2002 - 10 MCs
- **Level 1000 Mathematics, Science & Technology:** 30 MCs
- **Other core modules:** 38 MCs
- **CEG core projects:** 22 MCs
- **Industrial Attachment (6-months):** 12 MCs
- **CEG Technical Electives:** 12 MCs

### Unrestricted Elective Modules (UEM)
- **20 MCs**
- **124 MCs**
- **16 MCs** (Offered by any Faculty/School)

### Total (minimum) MCs for graduation = 160

Refer to the respective File For Graduation (FFG) document at [http://www.ceg.nus.edu.sg/students/FFG_Checklists.html](http://www.ceg.nus.edu.sg/students/FFG_Checklists.html)

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# CEG Modular Requirements and Credits

## AY2015/16 Poly intake

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<td>CG2003 Signals &amp; Systems</td>
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<td>CG2271 Real-time Operating Systems</td>
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CEG Curriculum

- Year 1 & 2:
  Wide coverage of Math, Engineering, Computing and Scientific fundamentals

- Year 3 & 4:
  Specialized courses that track the latest technology developments in the field

- Enable CEG graduates to deal with computer engineering problems of today and face future challenges

Points to Consider

- Core modules/Major requirements
- Choice of Technical Electives in Year 3 & 4 (some choose to start in year 2)
- IA semester
- Recommended study schedules
Core modules / Major requirements

- Core Modules*
  - CG3002 Embedded Systems Design Project
  - CG3207 Computer Architecture
  - CG4001 B.Eng. Dissertation
  - EE3031 Innovation & Enterprise I
  - EE3204 Computer Communications Networks I
  - EG2401 Engineering Professionalism
  - HR2002 Human Capital in Organizations
  - Industrial Attachment

  + (at least) 12 MCs of Technical Elective modules to achieve Breadth and Depth within B.Eng. (CEG)

*This is in addition to other modules that are usually taken in the lower years.

Points to Consider

- Core modules/Major requirements
- Choice of Technical Electives in Year 3 & 4 (some choose to start in year 2)
- IA semester
- Recommended study schedules
The technical electives (TE) are organised into SIX different concentrations. Each concentration contains some breadth & depth modules.

- Breadth modules: Core to the area and provides broad understanding of concepts
- Depth modules: More specialised and provides greater depth & coverage

Other modules hosted by CS or ECE may also be used as fulfilling CEG TE requirements. Generally, a level 3000 module will count as TE Breadth, while a level 4000 will count as TE Depth.

CEG students CANNOT exercise S/U option on ALL higher-level modules hosted by FoE and SoC (because all have pre-requisites).

- More than 50 modules (offered by CS/ECE) are available.
- Only THREE TEs (equivalent to 12 MCs) need to be taken over 3, or 4 semesters.

Technical Electives - Organisation

There are changes to the technical electives (from last year):

- Change in semester in which a module is offered
  [Most TEs are offered once a year.]
- Change in pre-requisite
- Changes in title, module code and syllabus
- New module / Module no longer offered

Useful links:
2. Updated master-list of technical electives (within the six concentrations) [http://www.ceg.nus.edu.sg/students/third_year.html](http://www.ceg.nus.edu.sg/students/third_year.html) (under ‘Academic Information/Useful Links’)
3. CEG Technical Elective page [http://www.ceg.nus.edu.sg/students/ceg3TE/](http://www.ceg.nus.edu.sg/students/ceg3TE/)

For above links #2 & #3, please check for updated version in May 2016.
Technical Electives - Requirements

(a) Depth (D) requirement
At least TWO Depth technical electives

(b) Modular credits requirement
At least 12 MCs of technical electives

Modules may come from Any/None of the concentrations!

Technical Electives - Concentrations

The CEG concentrations are:
- Communications & Networking
- Embedded Computing
- Large-Scale Computing
- Intelligent Systems
- Interactive Digital Media
- System-on-a-Chip Design

http://www.ceg.nus.edu.sg/curriculum/electives.html
CEG concentration

Communications & Networking

CS3103 Computer Networks Practice
EE3131C Communication Systems
CS4222 Wireless Networking
CS4226 Internet Architecture
EE4113 Digital Communications & Coding
EE4114 Optical Communications
EE4210 Computer Communication Networks II

Example: CS3103 (only offered in sem 1)
Pre-req: CS2105/EE3204
Preclusion: EE4210
CEG students are precluded from CS2105.
EE3204 (CEG Major/core requirement) is scheduled for Year 3.

EE3204 (sem 5) -> IA (sem 6) -> CS3103 (sem 7) -> CS4222 (sem 8)
IA (sem 5) -> EE3204 (sem 6) -> CS3103 (sem 7) -> CS4222 (sem 8)

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CEG concentration

Embedded Computing

CS2107 Introduction to Information & System Security
CS3103 Computer Networks Practice
CS3218 Multimodal Processing in Mobile Platforms
CS3235 Computer Security
CS4222 Wireless Networking
EE4210 Computer Communication Networks II
EE4214 Real-time Embedded Systems
EE4218 Embedded Hardware Systems Design
EE4415 Integrated Digital Design
CEG concentration

Large-Scale Computing
CS2010 Data Structures & Algorithms II
CS2102 Database Systems
CS2107 Introduction to Information & System Security
CS3211 Parallel and Concurrent Programming
CS3235 Computer Security
CS3223 Database Systems Implementation
CS4211 Formal Methods for Software Engineering <new>
CS4221 Database Applications Design and Tuning
CS4223 Multi-Core Architectures
CS4224 Distributed Databases
CS4345 General-Purpose Computation on GPU
EE4210 Computer Communication Networks II

The Need to Plan

Large-Scale Computing
Pre-req of CS4221/CS4224: CS3223 (only offered in sem 2)
Pre-req of CS3223: CS2010 AND CS2102

CS1020 (sem 2) -> CS2010 & CS2102 (sem 3/4/5) -> CS3223 (sem 6)
-> CS4224 (sem 7) / CS4221 (sem 8)
OR
CS1020 (sem 2) -> CS2010 & CS2102 (sem 5/6/7) -> CS3223 (sem 8)

'Extra' TE may be declared as UEM
CEG concentration

Intelligent Systems
CS2010 Data Structures & Algorithms II
CS3240 Interaction Design
CS3243 Introduction to Artificial Intelligence
CS3244 Machine Learning
EE3206 Introduction to Computer Vision and Image Processing
EE3331C Feedback Control Systems
CS4244 Knowledge-based Systems
CS4246 AI Planning and Decision Making
CS4248 Natural Language Processing
EE4212 Computer Vision
EE4213 Image & Video Processing <not offered in AY16>
EE4305 Introduction to Fuzzy/Neural Systems
EE4306 Distributed Autonomous Robotic Systems
EE4307 Control Systems Design and Simulation

The Need to Plan

Intelligent Systems
CS2010 Data Structures & Algorithms II
CS3243 Introduction to Artificial Intelligence
CS4244 Knowledge-based Systems
CS4246 AI Planning and Decision Making
CS4248 Natural Language Processing

Pre-req of CS4244: CS3243 (only offered in sem 2)
Pre-req of CS4246/CS4248: CS3243 (only offered in sem 2) AND ST2334
Pre-req of CS3243: CS2010 AND CS1231

CS1020 (& CS1231/ST2334 in Year 2) -> CS2010 (Special Term) -> IA (sem 5) ->
CS3243 (sem 6) -> CS4246/8 (sem 7) OR CS4244 (sem 8)

Need to take CS2010 in Special Term, and IA sem affected
CEG concentration

Interactive Digital Media
CS2108 Introduction to Media Computing
CS3240 Interaction Design
CS3241 Computer Graphics
CS3242 3D Modeling and Animation
CS3247 Game Development
CS3249 User Interface Development
EE3206 Introduction to Computer Vision and Image Processing
EE3331C Feedback Control Systems
EE3731C Signal Processing Methods
EE3701 Digital Media Technologies
CS4243 Computer Vision and Pattern Recognition <new>
CS4247 Graphics Rendering Techniques
CS4249 Phenomena and Theories of Human-Computer Interaction
CS4347 Sound and Music Computing
EE4212 Computer Vision
EE4213 Image & Video Processing <not offered in AY16>
EE4804 Biological Perception in Digital Media
ME4245 Robot Kinematics, Dynamics and Control

Students who read CS4243 are precluded from EE4212

CEG concentration

System-on-a-Chip Design
EE3407 Analog Electronics
EE3408C Integrated Analog Design
CS4223 Multi-Core Architectures
EE4214 Real-time Embedded Systems
EE4216 Embedded Hardware System Design
EE4415 Integrated Digital Design
EE4505 Power Semiconductor Devices & ICs

The pre-requisite(s) of ALL modules within this concentration is CEG core modules.

CG2271 (sem 4) -> CG3207 (sem 5) -> CS4223 (sem 7)
EE2020 -> EE4218 (sem 5/7) OR EE4415 (sem 6/8)
EE2021 -> EE4505 (sem 5/7)
EE2024 -> EE4214 (sem 6/8)
Technical Electives - Advices

- Be flexible in your choice of technical electives
- Take more technical electives, and declare the ‘extra’ as UEM (16 MCs)
- Plan ahead
- Interest vs Ability [Cannot exercise S/U option]
- Participate in the Module Preference Exercise (MPE) to indicate your interest in the TEs hosted by SoC. MPE is carried out in early-July (for sem 1), and early-Dec (for sem 2).

- CS2010 and CS2107 will be offered in upcoming ST2. Online registration (via STRS) starts end-May.

Points to Consider

- Core modules/Major requirements
- Choice of Technical Electives in Year 3 & 4 (some choose to start in year 2)
- IA semester
- Recommended study schedules
IA semester

- NOT allowed to do two rounds of 3-months internships, in lieu of (compulsory) 6-months IA (EG3601/CP3880).
- For AY16/17,
  - CG3002, EE3204 (and CG2271) will be offered in both semesters.
  - CG3207 will be offered as an evening module in sem 1 (only). Its lecture and one lab session will be scheduled at 6pm.

- May take (up to) TWO evening modules during IA, subjected to the approval of the company and module availability, consisting of:
  - Core modules e.g. CG3207 (sem 1), EE3031, EG2401
  - Technical Electives:
    Sem 1: CS3216, CS4211/2, CS4236, CS4343/6/9, EE3731C, EE4218
    Sem 2: CS4221, CS4231/8, CS4242, EE4212
  - BTech modules e.g. EExxxxE (very limited quota)
  - Modules offered by other Fac/Sch e.g. GEK1505

http://www.ceg.nus.edu.sg/ia/

IA semester

- Online application, Round 2
  FoE IAP (Jul-Dec 2016))/VIP (May-Jul 2016): 29 Mar - 5 Apr
  SoC ATAP (May-Oct 2016)/SIP May-Jul 2016): 30 Mar - 3 Apr

Refer to http://www.ceg.nus.edu.sg/ia/ and look out for the emails from FoE/SoC.

- Self-sourced IA (or internship)
  Either apply to convert to EG3601/EG3602 via FoE, or
  CP3880/CP3200 via SoC, latest by 29 Apr.

- IA/internship (for AY14 intake) will remain to be on ‘Completed Satisfactorily/Completed Unsatisfactorily’ (CS/CU) basis.

http://www.ceg.nus.edu.sg/ia/
Points to Consider

- Core modules/Major requirements
- Choice of Technical Electives in Year 3 & 4 (some choose to start in year 2)
- IA semester
- Recommended study schedules

Recommended Study Schedules

- UEM, ULR (SS, GEM, ULR Breadth) requirements are indicated in random semesters. Remember to read these modules.
- Workload per semester: Minimum 18 MCs, and up to 25 MCs
- Project Modules:
  - Be careful about taking CG3002/EE3031 together with FYP (CG4001 B.Eng. Dissertation) in semester 7 (e.g. due to SEP/IA).
    - Workload is very heavy!
    - If unable to avoid (e.g. cannot find suitable module during SEP), students should still keep to the average workload of 20 MCs [i.e. CG3002, CG4001 and two other modules].
    - Read EE3031 during IA, or find equivalent module during SEP
- Pay attention to workload balancing!

http://www.ceg.nus.edu.sg/students/studyschedule.html
Recommended Study Schedules
AY2014/15 intake

<table>
<thead>
<tr>
<th>Sem 4</th>
<th>Sem 5</th>
<th>Sem 6</th>
<th>Sem 7</th>
<th>Sem 8</th>
</tr>
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<tbody>
<tr>
<td>CG2271 Real-Time Operating Systems</td>
<td>EE3031 Innovation &amp; Enterprise I</td>
<td>HR2002 Human Capital in Organizations</td>
<td>Depth Elective</td>
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<td>EE2024 Programming for Computer Interfaces</td>
<td>EE3204 Computer Comms Networks I</td>
<td>Breadth Elective</td>
<td>Depth Elective</td>
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</tr>
<tr>
<td>ST2334 Probability &amp; Statistics</td>
<td>CG3207 Computer Architecture</td>
<td>UEM 1</td>
<td>UEM 2</td>
<td>UEM 4</td>
</tr>
<tr>
<td>ULR Breadth 2</td>
<td>EG2401 Engrg Profsem</td>
<td>GEM Subj Grp B</td>
<td>UEM 3</td>
<td></td>
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<tr>
<td>21 MCs</td>
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IMPORTANT:
- Students are encouraged to use UEM space to take more technical electives.
- The minimum 12 MCs of electives satisfying CEG Breadth/Depth requirements can be taken in any semester upon satisfying the prerequisites.
- The ULR (GEMs, SS, ULR Breadths) and UEM can be taken in any semester.

Recommended Study Schedules
AY2014/15 intake

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<td>ULR Breadth 2</td>
<td>GEM Subj Grp B</td>
<td>UEM 1</td>
<td>UEM 3</td>
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IMPORTANT:
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### Recommended Study Schedules
#### AY2015/16 Poly intake

<table>
<thead>
<tr>
<th></th>
<th>Sem 2</th>
<th>Sem 3</th>
<th>Sem 4</th>
<th>Sem 5</th>
<th>Sem 6</th>
<th>Sem 7</th>
</tr>
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<tbody>
<tr>
<td>MA1505</td>
<td>Math I</td>
<td>PC1222</td>
<td>Fundamentals of Physics II</td>
<td>PC1432</td>
<td>Physics IE</td>
<td>ST2334</td>
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<td>GET1021</td>
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**IMPORTANT:**
- Students are encouraged to use UEM space to take more technical electives.
- The minimum **12** MCs of electives satisfying CEG Breadth/Depth requirements can be taken in any semester upon satisfying the prerequisites.
- The GE modules can be taken in any semester.

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### Reminders

**ECE Career Fair**  
**ideas engineered into reality**

- Networking with potential employers
- Recruitment talks
- Information on available positions

**Friday, 1 April - 12 - 5 pm**  
**Outside LT6 - Formal Attire**

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**EE2 Streaming Talk**  
1 April (Friday)
12 - 3pm @ LT6
CEG2 may join from 1.15pm.