Dear SCBE Students

Please read the below carefully before the course registration exercise commences from Monday, 15 Jun – Friday, 3 July 2020.

**General Registration Instructions**

1. **Registration Schedule and Instructions**

The AY20/21 Semester 1 Registration Schedule and Instructions are now available on the NTU website: https://www.ntu.edu.sg/Students/Undergraduate/AcademicServices/CourseRegistration/Pages/RegistrationSchedule.aspx.

Please take time to read the content thoroughly before your course registration exercise.

**Important!**

Please do not assume that your registration schedule is the same as your peers admitted in the same year. Students who have accumulated more AU could be promoted earlier i.e. with more courses passed. Students who have not accumulated sufficient AU maybe in a lower registration study year.

*To check which Study Year you are classified as during course registration, you may go to your degree audit -> Study Year (for registration)*

Students are to check for your **personalised date and time** for registration under View Personalised Course Registration Information in **STARS** from Tue, 9 Jun 2020 (9 am) onwards.

Reminder: If there is no vacancy for a tutorial class (index), please register the next tutorial with available vacancy.

2. **Course Approval Form: Overloading/Waive Pre-requisites/Timetable Clash**

Please use the class schedule and star planner to plan your timetable. Complete the **Course Approval Form** and submit at least 3 working days before your registration date, via email to scbe_reg@ntu.edu.sg if you need

I. **Overload:** Year 1-3 students can overload up to 4 AUs and Year 4 & 5 students up to 7 AUs (Note: Overloading registration is done from 5.00pm – 10.00pm during your personalised date of registration.) Submit the course approval form only if you need to overload beyond the quota.

II. **Pre-requisite waiver**

III. **Timetable Clash Waiver:** This is permitted only if one of the courses is a re-attempt course.

- The School does not allow timetable clashes for both first attempt courses. Students generally must attend all classes (lectures & tutorials) for all first attempt courses.
- If the course that requires timetable waiver is offered by another school, please provide documentation that the offering school allows the timetable clash waiver

_All requests are subjected to Associate Chair (Academic)’s review and approval. You will be informed of the outcome of your request once it is processed._
3. Specialisation

You can now earn Specialisation in

- Advanced Pharmaceutical Manufacturing
- Intellectual Property for Chemical and Biomolecular Engineering
- Intellectual Property for Bioengineering

Please refer to the details under “Specialization Tab” in the SCBE Website.

4. Renouncement of ABP

If you intend to withdraw from ABP scheme, please submit your request via this link at https://sso.wis.ntu.edu.sg/webexe88/owa/sso_login1.asp?t=1&p2=https://wis.ntu.edu.sg/pls/webexe/ABP_WITHDRAWAL.main ASAP to minimise interruption during the course registration exercise.

5. Major PEs

The following list of Major PEs will be offered in AY2021S1 to SCBE students in their 3rd and 4th year:

<table>
<thead>
<tr>
<th>Major PE</th>
<th>Brief Description</th>
<th>Offered to:</th>
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<tbody>
<tr>
<td>BG4215 BIOMEDICAL NANOTECHNOLOGY</td>
<td>This course aims to develop your understanding of micro/nanotechnology for applications in biomedical field including nanomedicine, medical diagnostics, pathways to molecular manufacturing, molecular transport, and nanosensors for medical applications. The knowledge will prepare you for the potential further training in biomedical research, and development in bioengineering/medical industry.</td>
<td>BIE</td>
</tr>
<tr>
<td>BG4231 ADVANCED BIOMATERIALS</td>
<td>This course introduces various applications of materials and engineering techniques to solve basic and clinical problems. Neural engineering based on advanced materials and science will be discussed to achieve a better understanding on the neural system.</td>
<td>BIE</td>
</tr>
<tr>
<td>BG4341 FUNDAMENTALS OF INTELECTUAL PROPERTY IN BIOMEDICAL ENGINEERING</td>
<td>This course provides you with a working understanding on significant intellectual property (IP) protection regimes in Singapore, covering copyright, patents, registered design, trademarks and trade secrets and the relevant legislation and legal principles.</td>
<td>BIE</td>
</tr>
<tr>
<td>BS4010 SYNTHETIC BIOLOGY</td>
<td>This course aims to highlight how the complexity of biological systems, combined with traditional engineering</td>
<td>BIE</td>
</tr>
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</table>
approaches, results in the emergence of new design principles for synthetic biology. It will also introduce many exciting examples of practical applications of synthetic biology, including various state-of-the-art experimental and computational tools for synthetic biology, and an awareness of how traditional engineering knowledge benefits industrial application.

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Faculty</th>
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<tbody>
<tr>
<td>CH2010</td>
<td>ENGINEERING STATISTICS</td>
<td>The objective of this course is to introduce the concept of statistics and probability in engineering. It helps students to obtain correct interpretation from data collected and construct models for performance prediction.</td>
<td>BIE &amp; CBE</td>
</tr>
<tr>
<td>CH4106</td>
<td>FORMULATION OF ACTIVE PHARMACEUTICAL INGREDIENTS DOSAGE FORM</td>
<td>The objective of the course is to give an insight in drug formulation and the setting of quality specifications. Thus, the course is devoted to the objectives involved in bringing an active pharmaceutical ingredient into an effective and safe dosage form.</td>
<td>BIE &amp; CBE</td>
</tr>
<tr>
<td>CH4244</td>
<td>NUMERICAL METHODS &amp; DATA ANALYTICS</td>
<td>The objective of this course is to introduce the concept of Data Analytics to solve problems encountered in engineering and non-engineering fields. After completing the course, you will be able to use numerical approaches learnt in this course to gain understanding, optimize and make decision from data.</td>
<td>BIE &amp; CBE</td>
</tr>
<tr>
<td>CH4306</td>
<td>BIOANALYTICAL TECHNIQUES</td>
<td>The objective of this course is to provide a forum for advanced student discussion on the development, application and utility of modern analytical and bioanalytical methods and techniques used in research. A secondary purpose is to discuss the generation, application and meaning of data in addressing complex questions and problems in biochemical engineering, cell biology, molecular biology and biochemistry.</td>
<td>BIE &amp; CBE</td>
</tr>
<tr>
<td>CH4451</td>
<td>PROCESS ENGINEERING FOR GAS/LNG &amp; PHARMACEUTICAL INDUSTRIES</td>
<td>This course would help you embark onto your professional careers in process engineering discipline with reduced or no “On-The-Job” training and to enable you to deliver fruitful output/result independently in early stage of your career. This course would also help you pursue careers in other areas like Operation, Marketing, Business Development etc. This course introduces you to the industry-led process engineering aspects, emphasizing on Gas/LNG and Pharmaceutical Industries.</td>
<td>CBE</td>
</tr>
<tr>
<td>CH4341 FUNDAMENTALS OF INTELLECTUAL PROPERTY IN CHEMICAL ENGINEERING</td>
<td>This course provides you with a working understanding on significant intellectual property (IP) protection regimes in Singapore, covering copyright, patents, registered design, trademarks and trade secrets and the relevant legislation and legal principles.</td>
<td>CBE</td>
<td></td>
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<tr>
<td>CH9221 FOOD INDUSTRY SEMINAR SERIES</td>
<td>This seminar course will introduce the students to the Food Industry in Singapore, Asia and beyond. Prominent speakers from various Food MNCs, local SMEs, and regulatory bodies (AVA and/or WHO) will be invited to present every week on various topics and food issues. This will also give the students a valuable opportunity to interact personally with food industries and have a deeper understanding of the food policies and issues around the world.</td>
<td>CBE</td>
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6. Change in Course Code

<table>
<thead>
<tr>
<th>Old Code</th>
<th>New Code from AY20</th>
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</thead>
<tbody>
<tr>
<td>CH1102</td>
<td>CB1102</td>
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<tr>
<td>CH2106</td>
<td>CB2106</td>
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7. Lab Courses

Do note that you will not be allowed to drop or change indexes for lab courses (BG1801, BG2801, BG3801, CH1801, CH2801, CH3802) after registration.

8. Weekend Classes

You may notice some courses have Saturday Classes schedule (e.g CH1131, BG1131, BG2104 etc).

Do note that there will not be actual classes conducted on a Saturday, rather recorded content would be provided for your learning.

**CBE Students**

**CH4702 Independent Research Project**

Registration for CH4702 Independent Research Project (IRP) will not be allowed during the June 2020 course registration period. Students interested in doing CH4702 in AY2021S1 can refer to the available projects online on StudentLink (StudentLink > Academic Matters > Survey/Subject Option/FYP > SCBE Final Year Project/Independent Research Project Selection) between 20 Jul to 7 Aug 2020. Students should also initiate discussion with faculty during this period on the available projects. Upon mutual agreement, faculty can allocate projects to students between 27 Jul to 7 Aug 2020. No changing of projects is allowed after the allocation.
Student with allocated projects need to register for CH4702 during the add-drop period from 11 – 21 Aug 2020. No dropping of the module is allowed after registration.

Please refer to the details in the attached IRP Handbook.

**BIE Students**

**BG4801 Final Year Project**

Students starting their BG4801 Final Year Project (FYP) in AY2021S1, can refer to the available projects online on StudentLink (StudentLink > Academic Matters > Survey/Subject Option/FYP > SCBE Final Year Project) between 22 June to 17 July 2019. Students should also initiate discussion with faculty during this period on the available projects. Upon mutual agreement, faculty can allocate projects to students during this period.

All remaining students are allocated remaining projects via computer allocation, based on your choices selected via FYP system from 20 – 24 July 2020.

Please note that students **do not need** to register for FYP during the course registration period. As long as FYP projects are allocated to students, UG office will register the course on behalf of students for the 2 semesters. No dropping of the module is allowed after registration.

Please refer to the details in the attached FYP Handbook.

Please write to us at scbe_reg@ntu.edu.sg if you have further queries on course registration.

Do note that the Undergraduate (Acad) Office will receive a high volume of e-mails during the course registration and add/drop period.

We seek your patience and understanding for any delay in response.

Thank you for your attention.

Regards

SCBE UG Office