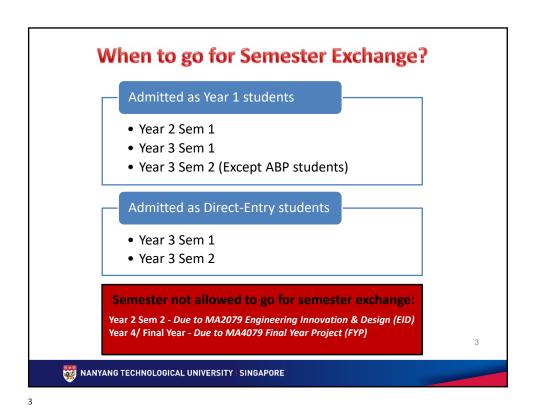


Exchange Programme Overview Semester Exchange **Short-term Programme GEM GEM GEM SUSEP Explorer VEnturer** Discoverer Special-term Virtual Minimum CGPA Minimum CGPA Programme exchange * Requirement: 3.3 Requirement: 3.5 Minimum CGPA Minimum CGPA Requirement: 3.3 Requirement: 2.0 Credit transfer Credit transfer up cap at normal Credit transfer for Credit transfer up to 22AUs NTU semester load 1 course only. to 6AUs (No Core) Student must complete at least 1 semester of studies at the point of application and at least 2 semesters at the point of admission to the host institution. *Final Year Students intend to go for Summer/Winter Exchange should discuss with FYP Supervisor on your project plan before apply. NANYANG TECHNOLOGICAL UNIVERSITY | SINGAPORE

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Before Applying for exchange..

STUDY

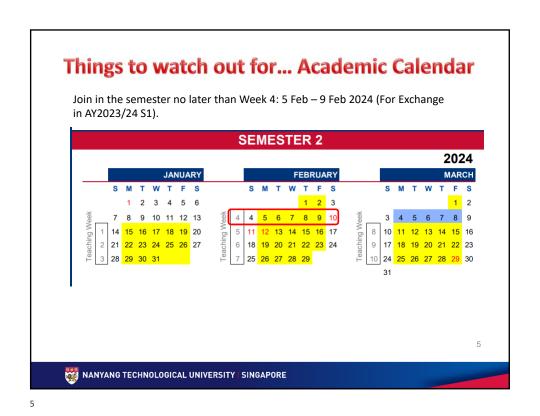
Application procedure
Eligibility Criteria and Selection Process
Financial Aid
Learn OGEM withdrawal policy.

Before Applying for exchange..

PLAN
Cuesting pre-requisites
Semester load

Cueste Availability
Semester load

Cuesting pre-requisites
Semeste



Returning to NTU...LATE(in Teaching Week 3)! Doing PI upon return? No Yes Inform CAO+ and PI Attending classes? company of your internship start date. Yes No Т Apply Short Term LOA* **Apply Semester LOA** Not allowed to take Lab - Do not join in the courses or courses with semester if you are more than 40% CA, returning later than the example: MA2005, 4th week of the semester. MA3001 *Email mae reg@ntu.edu.sg if you encounter any course registration issues. 6 +CAO email: CAO EngrgAttachment@ntu.edu.sg NANYANG TECHNOLOGICAL UNIVERSITY | SINGAPORE

Things to watch out for... Course Offerings

Some MAE courses only offered in either Sem 1 or Sem 2 only. Take note of this when planning your exchange.

Course Code	Course Title	AU	Pre-Requisite	Offering Semester
MA3001	Machine Element Design	3	Having read MA2001, MA2002 and MA2005 Sem 1 & 2	
MA3002	Solid Mechanics and Vibration	3	MA2001 Sem 1 & 2	
MA3003	Heat Transfer	3	MA2007 Sem 1 & 2	
MA3004	Mathematical Methods in Engineering	3	MH1810 & MH1811 or CY1203 or MH2812 or Sem 1 & 2 CY1602 or MH2810	
MA3005/ MA3705	Control Theory / Aerospace Control Theory	3	Having read MA2006 Sem 1 & 2	
MA3006	Fluid Mechanics	3	MA2003	Sem 1 & 2
MA3010	Thermodynamics & Heat Transfer	3	MA2003	Sem 1
MA3071	Engineering Experiments (ME)	1		Sem 1 & 2
MA3072	Engineering Experiments (AE)	1		sem 1
MA3700	Aircraft Structures I	3	MA2001	Sem 1
MA3701	Aerodynamics	3	MA2003	Sem 1
MA3702	Aircraft Propulsion	3	MA2007	Sem 1
MA3703	Flight Dynamics	2	MA2701 & MA3705	Sem 1
MA3704	Aircraft Electrical Devices	3	Sem 1	
MA4001	Engineering Design	4	Having Read MA3001 Sem 1 & 2	
MA4002	Fluid Dynamics	3	MA3006 Sem 1 & 2	



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Things to watch out for...Language of instruction

Overview of ECTS subjects on Faculty of Mechanical Engineering

Academic year 2018/2019 •

Code	Title	Credits	Language of Instruction	Semester	Contact
330- 0101/01	Introduction to Mechanical Vibrations and Structural Dynamics	5	English	Winter	doc. Ing. Jiří Podešva. Ph.D.
330- 0301/02	Statics	5	Czech, English	Summer	Ing. Milada Hlaváčková, Ph.D.
330- 0302/02	Dynamics I	5	Czech, English	Winter	Ing. Zdeněk Poruba. Ph.D.
330- 0304/03	Technical Vibrations	5	Czech. English	Winter	doc. Ing. Jiří Podešva, Ph.D.
30- 305/02	Mechanics of Materials	5	Czech, English	Winter. Summer	Dr. Ing. Ludmila Adámková
30- 306/03	Mechanics of Materials 2	5	Czech. English	Summer	Dr. Ing. Ludmila Adámková
30- 309/02	FEM - ANSYS	2	Czech, English	Summer	Ing. Pavel Maršálek

- For Core/Major PE, the course should be taught in English with assessments/Examinations in English.
- Only language course to be mapped as UE/BDE can be taught in non-English.

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Maximum AUs allowed for Credit Transfer

22AUs

- All MAE students
- Including 1AU laboratory course (MA3071/MA3072)

24AUs

- Applicable to ABP/DDP/Second major students only.
- Including 1AU laboratory course (MA3071/MA3072)
- The minimum grade to be counted for credit(AU) transfer must be equitable to a Pass grade at the host university.
- All Pass and Fail grades will be reflected in Degree Audits and transcripts.

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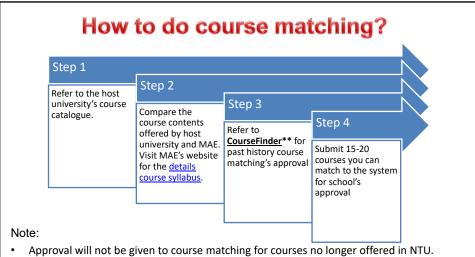
Course matching criteria

The decision to approve/reject each course matching is not restricted to, but is largely based on the following factors:

- Match in content (approximately 75% match) 1.
- Number of contact hours (In-person lectures, tutorials and labs will be counted
- The course must have some form of assessment (e.g. exams, tests, projects etc)
- **Students are discouraged from reading courses that are pitched at the postgraduate level

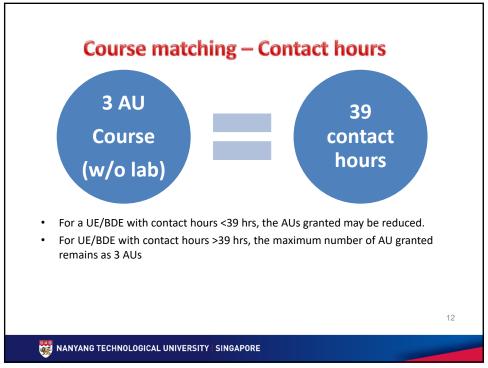
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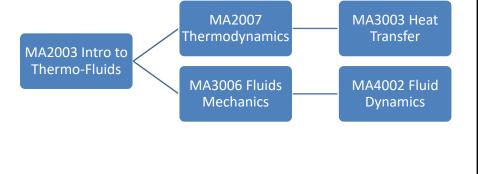
- Student must obtain re-approval of courses that were in the CourseFinder. Not all approved course matchings found in the CourseFinder will be approved again as School is constantly reviewing the curriculum.
- **Studentlink > Academic Services > Undergraduate > GEM Explorer CourseFinder 11

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Course matching – Pre-requisites

- NOT allowed to read any pre-requisite concurrently with another course that requires a pass in that pre-requisite
- Example, courses such as:



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Course matching - Major PE

- Students who attend an overseas exchange can read Major PE regardless of offering semester in MAE. (refer to MA48XX courses in the course curriculum page), provided all the necessary pre-requisites are met.
- Students participating exchange in Year 2 cannot read MPE in exchange.

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Course matching:

AERO students specializing in Mechanical Engineering

AERO students specializing in Mechanical Engineering should **NOT** read the following courses on exchange:

SPECIALISATION IN MECHANICAL ENGINEERING

 $A ERO \ students \ will \ have \ to \ read \ the \ following \ courses \ under \ the \ specified \ course \ types \ to \ fulfill \ the \ special is at ion:$

COURSE TYPE	COURSE CODE AND TITLE
Core+	MA3704 Aircraft Electrical Devices
Unrestricted Elective+	MA2002 Theory of Mechanism
Unrestricted Elective+	MA2009^ Introduction to Electrical Circuits & Electronic Devices
Major Prescribed Elective+	MA3001 Machine Element Design
Major Prescribed Elective+	MA4002 Fluid Dynamics

^MA2009 and MA5705 (MA8005) are mutually exclusive courses. Students who have read MA5705 (MA8005) before AY2018 S1 are allowed to reclassify MA5705 (MA8005) as UE to be counted towards the

+All courses must be graded - S/U option cannot be used.

Courses listed on above must be graded. Details can be found on the MAE website, click here.



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How to do LAB course matching?

ME: MA2071/MA3071 AERO: MA2072/MA3072 (1AU lab course)

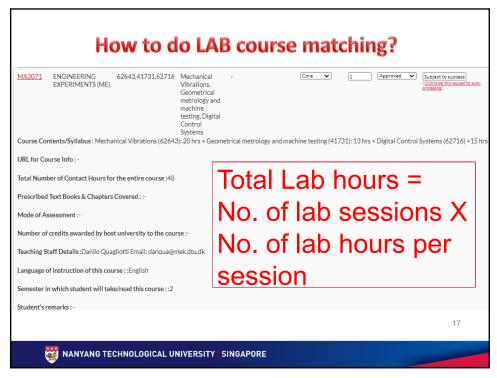


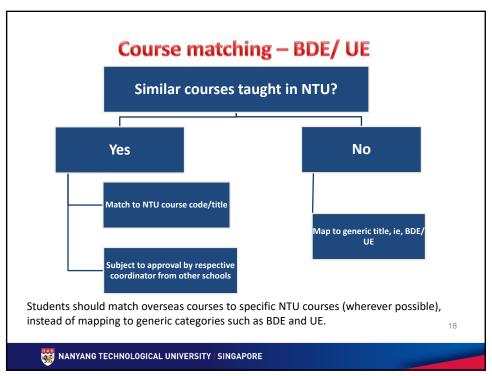
30 to 39 hrs of lab

- A maximum of 1 laboratory course is allowed for credit transfer.
- Lab components may be considered for mapping lab course. Only 1 lab course matching is required in the course matching system. Without double counting, a minimum of 30 lab hours is required for approval.

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Course matching – Minor Programmes

- Seek prior approval (by written endorsement or email) from the School offering the Minor.
- MAE Exchange Coordinators should be copied in all correspondences.

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Example of a good course-matching submission:

Course Contents/Syllabus: The overall aim is to provide the students an understanding of, - process dynamics - the operation and application of simple feedforward and feedback control - how measurements and actuators can be connected in a process plant The course should thus provide the student the ability to design single input - single output (SISO) control systems for chemical and biotechnical processes with continuous and batchwise operation.

URL for Course Info; http://www.kurser.dtv.dk/xxxx.aspx?menulanguage=en-gb

Total Number of Contact Hours for the entire course : Lecture= 26 hours, Tutorial= 13 hours, Laboratory/ Project Work = 13 hours

Prescribed Text Books & Chapters Covered:: Seborg D.E., Edgar T.F., Mellichamp D.A. (2004) Process Dynamics and Control (2nd edition). John Wiley & Sons. Or Seborg D.E., Edgar T.F., Mellichamp D.A. and Doyle F.J. (2011) Process Dynamics and Control (3rd edition), John Wiley

Mode of Assessment: Quizzes; Design Projects; Final Exam

Number of credits awarded by host university to the course :5

Note: Course matching submission with incomplete or incorrect details/information will be rejected.

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Courses not allowed to read during exchange

The following course matchings will not approved by MAE:

Course Code/Title	Course Code/Title
EG0001/ EG1001 Engineers and Society	CC0001 Inquiry and Communication in the Interdisciplinary World
HW0188 Engineering Communication I	CC0002 Navigating the Digital World
HW0288 Engineering Communication II	CC0003 Ethics & Civics in a Multi-Cultural World
GC0001 Sustainability: Seeing Through The Haze	ML0004 Career and Entrepreneurial Development for the Future World
ML0001 Absolute Basics in Career	CC0005 Healthy Living & Wellbeing
HY0001 Ethics and Moral Reasoning	CC0006 Sustainability: Human, Society, Economic & Environment
ET0001 Enterprise and Innovation	CC0007 Science & Technology for Humanity
ML0002 Career Power Up!	Online courses with no physical lecture/tutorial
ML0003 Kickstart Your career Success	

Please read the courses (you have missed) when you return.

Note: Second-year students are not allowed to read final-year courses in exchange ²¹



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CAs/ Examinations

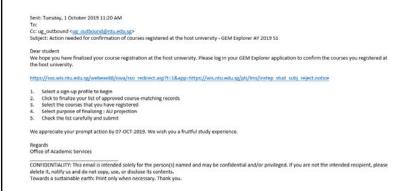
- All examinations (main, supplementary or otherwise) offered by the host university will have to be taken at the host university, not in NTU.
- If you fail the course, you will have to retake the course in NTU.
- Requests/ Appeals to sit for host university's exams in NTU will not be entertained.
- Early Examination Request at the host university or any other special requests are subject to approval by the host university and NTU.
- Transcripts must indicate all courses that have been read, including any failed courses.

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AU Projection

- Students must submit the AU Projection list within the deadline mentioned on the E-Notification from OAS. Finalization of AU projection only after you confirm all your registered courses at the host university. You can only submit this once.
- Please do not submit credit transfer until you have received your official transcript (with University's seal and signature)



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Returning to NTU - Credit Transfer

- Please upload your transcript into the system after you have received it from the host university. Click here for steps on credit transfer.
- Credit transfer records submitted for exchange in previous semester will be updated by the end of the following semester after necessary checks, if any.

Example: Exchange in AY23/24 Sem 1, Credit transfer will be updated by end of AY23/24 Sem 2.

- Credit transfer requests are processed in batches. Please be patient for any delays.
- If you have taken a pre-requisite course during exchange, your credit transfer will not be completed in time for your course registration in NTU.

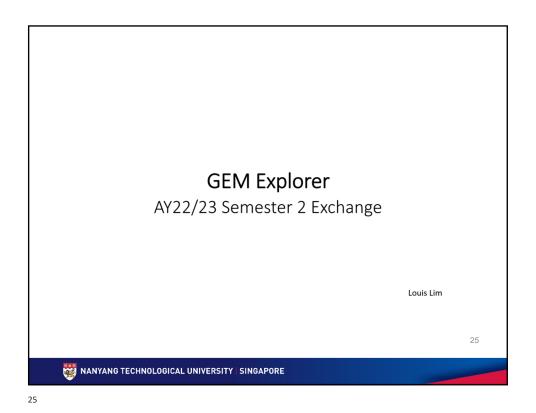
Example: Read MA3001 Machine Element Design overseas and intend to read MA4001 Engineering Design in the coming semester.

- Please email mae reg@ntu.edu.sg stating the course you want to read and the prerequisites which you have completed overseas before the course registration period.
- For credit transfer matters, please contact Ms Tiana (thaiyana@ntu.edu.sg).

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Contact Information

School of MAE

Website:
https://www.ntu.edu.sg/mae/admissions/current-students/undergraduate/student-exchange

OGEM

GEM Explorer/ SUSEP Exchange
GEM-Explorer@ntu.edu.sg
GEM Discoverer
gemdiscoverer@ntu.edu.sg
GEM VEnturer
GEM-VEnturer@ntu.edu.sg
Website:
https://www.ntu.edu.sg/education/student-exchanges/gem-explorer

