



Overview of Dual Master Degree Program at School of Mechanical Engineering

(* Please note that all the requirements below may subject to new policies each year. The Graduate Affairs Office reserves the right for the explanation.)

Figure 1. Overview of Dual Master Degree Program

Timeline	Event	Note
September, 2017	Make your study plan online according to the <u>Degree Requirements</u> , select courses online and take courses	1.Course Selection Deadline: the end of 3 rd academic week. 2.All the online application process should be operated in the Graduate Information Management System with your SJTU Jaccount. (http://en.gs.sjtu.edu.cn/)
End of September, 2017	Submit the hard copy of your study plan to the Graduate Affairs Office(GAO, Room 104, Mechanical Building A)	Signature of your supervisor is required before submission the hard copy to GAO.
October, 2017	Credit transferring process	No more than 20 credits can be transferred from home university to SJTU.
Semester 2	Complete all the coursework in your study plan and prepare for the thesis proposal	In principle study plan shall not be changed. If changes needed, the request can only be accepted within the first beginning two weeks while the certain courses you'd like to change haven't got started.
Semester 3	Prepare, propose, and defend a Master Thesis according to the <u>Degree Requirements</u>	In principle Dual Master Degree Program shall be finished within 1.5 years at SJTU. If extension needed, please go to GAO for details.

Degree Requirements for Dual Master Degree Students

To obtain a Master of Science (MS) Degree from School of Mechanical Engineering (ME), students must fulfill the following requirements.

1. Complete specific **Coursework**.
2. Preparation, propose, and defend a **Master Thesis**.
3. No requirement for paper publication.

1. Coursework

To complete their coursework requirement, Master students must take a number of courses, while maintaining a minimum Grade Point Average (GPA). Courses offered in English in ME are divided into two categories, **GPA Course** and **Non-GPA (refer to Fig.2)**. Only **GPA Course** course will be calculated into GPA.

1) Credits requirement.

- ① At least 30 credits' courses must be completed.
- ② Among the 30 credits, at least 19 credits must be obtained from GPA Course Courses.
- ③ Among the 30 credits, no more than 20 credits can be transferred from home university to SJTU.
- ④ Compulsory courses are: **Chinese Language** (Course Code G080511, 2 credits), **Chinese Culture** (Course Code G090510, 2 credits), **Academic English** (Course Code FL28002, 2 credits) and **two mathematics courses** (6 credits). Chinese Language belongs to Non-GPA course, and the other compulsory courses belong to GPA Course Courses.

2) Minimum GPA requirement.

- ① Students whose GPA for GPA Course Courses below 2.7 are not eligible for thesis defense.
- ② Students who failed in exam are not eligible for thesis defense. The student shall retake the corresponding course and get it passed.

2. Master Thesis

Candidates who have completed all the requirements of **Coursework** are eligible for master thesis defense. The length of the thesis should no less than 20,000 words in English. A successful defense of a Master Thesis involves the following steps, which are shown in **Fig. 3**.

Figure 2. Graduate Courses offered in English for 2017-2018 Academic Year at ME School

No.	Course Code	Course Title (Chinese)	Course Title (English)	Credit	Course Category	Semester
1	EP26003	高等工程热力学 (英文)	Advance Engineering Thermodynamics	3	GPA Course	Spring&Fall
2	EP26004	高等传热学 (英文)	Advanced Heat Transfer	3	GPA Course	Fall
3	EP26001	高等工程流体力学 (英文)	Advanced Fluid Dynamics in Engineering	3	GPA Course	Fall
4	ME26005	数字信号处理 (英文)	Digital Signal Processing	3	GPA Course	Fall
5	ME26021	计算机图形学 (英文班)	Computer Graphics	3	GPA Course	Fall
6	ME26018	弹塑性力学	Elastic & Plastic Mechanics	3	GPA Course	Fall
7	EP26002	计算流体力学 (英文)	Computational Fluid Dynamics	3	GPA Course	Fall
8	ME6029	高等运筹学 (英文)	Advanced Operations	3	GPA Course	Fall
9	ME6033	生产与运作分析 (英文)	Production and Operation Analysis	3	GPA Course	Fall
10	ME6019	汽车系统动力学 (英文)	Software Engineering for Automotive Electronic Control System	3	Non-GPA Course	Fall
11	ME26016	博弈论	Game Theory	3	Non-GPA Course	Fall
12	PO6017	循环流化床燃烧技术 (英文)	Circulating Fluidized Bed Combustion	3	Non-GPA Course	Fall
13	PO6020	新能源系统 (英文)	New Energy Systems	3	Non-GPA Course	Fall
14	EP26009	先进空气动力学测量技术基础与实践	Fundamentals and Practices of Advanced Aerodynamics Measurement Technologies	3	Non-GPA Course	Fall
15	ME7007	工厂物理学 (英文班)	Factory Physics	3	Non-GPA Course	Fall
16	ME26001	测试原理、传感器与系统 (英文)	Basic Principle, Sensors and Systems for Mechanical Measurement	3	GPA Course	Spring
17	EP26013	高等燃烧学 (英文班)	Advanced Combustion Theory	3	GPA Course	Spring
18	PO6002	燃烧化学动力学 (英文)	Combustion Chemical Kinetics	3	GPA Course	Spring
19	PO6011	多相流与传热 (英文)	Multiphase Flow and Heat Transfer	3	GPA Course	Spring
20	PO6013	微尺度流动与传热 (英文)	Microfluid Flow and Heat Transfer	3	GPA Course	Spring
21	ME26003	摩擦学与润滑理论 (英文)	Tribology & Lubrication Theory	3	GPA Course	Spring
22	ME6031	数据挖掘 (英文)	Data Mining	3	GPA Course	Spring
23	ME6035	离散事件导论 (英文)	Introduction to Discrete Event System	3	GPA Course	Spring
24	ME6001	结构声学 (英文)	Structural Acoustics	3	Non-GPA Course	Spring
25	ME6041	现代汽车动力总成技术 (英文)	Advanced Powertrain Technologies	3	Non-GPA Course	Spring
26	ME7004	汽车控制工程 (英文)	Modern Vehicle Control Engineering	3	Non-GPA Course	Spring
27	ME26022	机器视觉与应用 (英文班)	Machine Vision and its Applications	3	Non-GPA Course	Spring
28	ME26023	微细制造 (英文班)	Micro Manufacturing	3	Non-GPA Course	Spring
29	ME7008	算法设计与分析	Algorithm Design and Analysis	3	Non-GPA Course	Spring

Figure 3. Master Thesis Time Line

To-do List	Deadline	Description
Step 1. Upload <i>Thesis Proposal Form</i> online and submit the hard copy to GAO.	Jul, 2018	<i>Thesis proposal</i> provides the following information: (1) the proposed content of the research work, (2) a comprehensive literature review of the state-of-the-art in the field, (3) a description of the research tasks that have been completed, (4) a discussion of preliminary results, (5) the original contribution of the proposed research, and (6) the tasks that will be completed before the thesis defense.
Step 2. Upload draft thesis online for repetition check	Nov. 31, 2018	Candidates will get repetition-check result before the deadline. Candidates with repetition-check rate over 10% will not be eligible to apply for MS degree. The draft thesis uploaded is the one to be evaluated in blind-evaluation process.
Step 3. Check the feedback of draft thesis evaluation	Nov., 2018	Candidates' draft thesis will be evaluated by two experts. Candidates can check the feedback of evaluation before the deadline.
Step 4. Being informed of blind-evaluation	Dec., 2018	Candidates' draft thesis will be selected randomly for blind evaluation. The result of blind-evaluation only serves as reference suggestions to final thesis defense result.
Step 5. Apply for thesis defense online	Dec., 2018	
Step 6. Defense for thesis	Jan., 2019	Thesis defense lasts for one hour, including 20-30 minutes presentation of thesis content and 30 minutes answering questions given by Master Thesis Committee (MTC).
Step 7. Submit final thesis online	Jan., 2019	Candidates revise draft thesis according to MTC's comments. Final thesis and other related documents will be submitted to Academic Degree Committee for final evaluation.
Step 8. Being awarded M.S degree	Apr.30, 2019	Hard copy of M.S degree will be mailed to successful candidates.
<p>Notes: All the online application process should be operated in the Graduate Information Management System with your SJTU Jaccount.</p>		