Roadmap of SSE courses

Department of Semiconductor Systems

Legend:
- Core Majors
- Extended Majors
- Experiment &Practice
- General subject

1st year		2nd year		3rd year		4th year	
1 semester	2 semester	1 semester	2 semester	1 semester	2 semester	1 semester	2 semester

Courses:

- Electro Magnetism 1 → Electro Magnetism 2
- Physical Electronics → Semiconductor Electronics → Semiconductor Integration Engineering → Semiconductor Integration Engineering
- Microwave Engineering
- Semiconductor Device Simulation
- Electronic Materials
- Electric Circuits 1 → Electric Circuits 2 → Electronic Circuits 1 → Electronic Circuits 2
- Electric Circuits Laboratory → Electronic Circuits Laboratory
- Digital Integrated Circuits
- CMOS Memory Devices
- Integrated Circuits Cornerstone Design
- Analog Integrated Circuits
- System Integrated Circuits
- System Software Experiment 1 → System Software Experiment 3
- Semiconductor Capstone Design
- Computer Architectures → Compiler Design → Multicore Systems
- Logic Circuits
- Introduction To Computer Systems
- System Software Experiment 2
- Operating Systems
- Operating System Project
- Computer Networks
- Cryptography
- Freshman Seminar
- Creative Engineering Design
- Microprocessor
- Logic Design Laboratory
- Microprocessor Laboratory
- Embedded System Design → Embedded System Practice
- SOC Design
- Digital System Design
- Computer Programming For Engineers
- Basis and Practice in Programming
- Problem Solving Techniques and Process → Data Structures and Algorithms
- Control Engineering
- Communication Engineering
- Signals and Systems
- Computer Graphics
- Digital Signal Processing
- Discrete Mathematics
- Engineering Mathematics 1 → Engineering Mathematics 2
- Probability and Random Processes
- Artificial Intelligence
- Linear Algebra
- Introduction to Machine Learning
- Database → Database Project
- Software Engineering → System Simulation
- Practical Semiconductor Training 1

Legend:
- → Strongly Recommended
- ⇢ Recommended