

GRADUATE COURSES

Curriculum for the Degree of Master of Science in Chemical Engineering

Transport Phenomena Branch:

- 1- Two of these three courses: Advanced Fluid Mechanics – Advanced Heat Transfer – Advanced Mass Transfer
- 2- One of these two courses: Advanced Numerical Analysis – Advanced Mathematics
- 3- Advanced Thermodynamics
- 4- Advanced Reactor Design
- 5- Three special courses

Separation Processes Branch:

- 1- Advanced Fluid Mechanics
- 2- Advanced Mass Transfer
- 3- Advanced Numerical Analysis
- 4- Advanced Thermodynamics
- 5- Advanced Reactor Design
- 6- Three special courses

Advanced Chemical Engineering Branch:

- 1- Advanced Fluid Mechanics
- 2- Advanced Mass Transfer or Advanced Heat Transfer
- 3- Advanced Numerical Analysis
- 4- Advanced Thermodynamics
- 5- Advanced Reactor Design
- 6- Three special courses

Polymer Engineering Branch:

- 1- Advanced Rheology of Polymers
- 2- Advanced Heat Transfer
- 3- Advanced Mathematics
- 4- Advanced Polymerization Processes
- 5- Engineering Properties of Polymers
- 6- Shaping Processes of Polymers
- 7- Two other major-specific courses from polymer engineering courses