

Year of Admission : 111

Degree Program : D-Doctoral Degree

Department Graduate Institute/Degree Program : D45 -International Ph.D. Program in Biomedical Engineering

※ According to the regulation offered by Ministry of Education, credits from distance learning shall not exceed half of total graduation credits.
 ※ Detailed information on digital self-learning courses, please refer to the FAQ page.

List of Courses and Credits (old version) : [Link](#)

ENRA121_List of Courses and Credits

List of Courses for International Ph.D. Program in Biomedical Engineering in TMU (Applicable to Newly -Admitted Students from 111 Academic Year)

| Category | Course title | Credits | Required/Elective | Full /Half Year | Grade Level 1 | | Grade Level 2 | | Grade Level 3 | | Grade Level 4 | | Grade Level 5 | | Grade Level 6 | | Grade Level 7 | | Minor | Double Major | Language | Distance Education | Remarks |
|-------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------|-----------------|---------------|--------|---------------|--------|---------------|--------|---------------|-------------------------------|---------------|--------|---------------|--------|-----------------------------------|--------|-------|--------------|----------|--------------------|---------------------------------------------------------------------|
| | | | | | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | Fall | Spring | | | | | |
| Core Courses for Postgraduate (Required) | Research ethics | 0 | R | H | 0 | 0 | | | | | | | | | | | | | | | English | ✓ | Required to complete Research ethics course once before graduation. |
| Core Courses for Postgraduate (Required) Subtotal credits | | 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Core Courses for Postgraduate Students in College (Required) | Seminar | 1 | R | H | 1 | | | | | | | | | | | | | | | | English | | |
| | Seminar | 1 | R | H | | 1 | | | | | | | | | | | | | | | English | | |
| | Seminar | 1 | R | H | | | 1 | | | | | | | | | | | | | | English | | |
| | Seminar | 1 | R | H | | | | 1 | | | | | | | | | | | | | English | | |
| Core Courses for Postgraduate Students in College (Required) Subtotal credits | | 4 | | | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Core Courses for PhD Students in College (Required) | Special topics in Moon -Shan academia - industry forum | 1 | R | H | 1 | | | | | | | | | | | | | | | | English | | |
| | Advanced thesis writing | 2 | R | H | | 2 | | | | | | | | | | | | | | | English | | |
| | Special topics in Moon -Shan academia - industry forum | 1 | R | H | | 1 | | | | | | | | | | | | | | | English | | |
| Core Courses for PhD Students in College (Required) Subtotal credits | | 4 | | | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Required Courses | Tissue engineering for clinical applications | 2 | R | H | 2 | | | | | | | | | | | | | | | | English | | |
| | Biomaterials & nanomaterials: application in medicine | 2 | R | H | 2 | | | | | | | | | | | | | | | | English | | |
| | Practices in medical devices & instruments | 2 | R | H | | | 2 | | | | | | | | | | | | | | English | | |
| Required Courses Subtotal credits | | 6 | | | 4 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Dissertation | Dissertation | 12 | R | H | | | 12 | 12 | | | | | | | | | | | | | English | | |
| | Dissertation Subtotal credits | | 12 | | | 0 | 0 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | |
| Core Courses for PhD Students in College (Elective) | Advanced mechanics of biomaterials | 2 | E | H | | 2 | | | | | | | | | | | | | | | English | | |
| | Biological interactions on materials surfaces | 2 | E | H | | 2 | | | | | | | | | | | | | | | English | | |
| | Bioprocessing | 2 | E | H | | 2 | | | | | | | | | | | | | | | English | | |
| | Nanocarriers for drug delivery | 2 | E | H | | 2 | | | | | | | | | | | | | | | English | | |
| | Advanced biomedical engineering | 2 | E | H | | 2 | | | | | | | | | | | | | | | English | | |
| Core Courses for PhD Students in College (Elective) Subtotal credits | | 12 | | | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| Credits Required | | Required core courses : 8 credits Featured courses(required) : 6 credits Type : Dissertation credits : 12 credits | | | | | | | | | | Elective Credits Required | | | | | Elective core courses : 4 credits | | | | | | |
| Total Credits Required for Graduation | | 30 credits | | | | | | | | | | Maximum credits can be waived | | | | | 9 credits | | | | | | |
| Notes for Graduating Requirement | | | | | | | | | | | | | | | | | | | | | | | |
| Approved by Academic Affairs Meeting on (time, date) | | 111/12/06 | | | | | | | | | | | | | | | | | | | | | |