

Bachelor of Science Program in Integrated Design in Emerging Architecture (IDEA)

Curriculum Structure for student code 62

A. Curriculum Structure

| | | |
|------------------------------------|-----------------------|--------------------|
| (1) General Education | Total | 30 Credits |
| 1.Required Courses | | 21 Credits |
| - Learner Person | | 15 Credits |
| - Innovative Co-creator | | 3 Credits |
| - Active Citizen | | 3 Credits |
| 2.Elective | | 9 Credits |
| - Learner Person | | |
| - Innovative Co-creator | | |
| - Active Citizen | | |
| (2) Field of Specialization | not least than | 105 Credits |
| - Core Course | | 36 Credits |
| - Major | not least than | 69 Credits |
| - Required Courses | | 54 Credits |
| - Major Elective | not least than | 15 Credits |
| - Minor | | None |
| (3) Free Elective | not least than | 6 Credits |

B. Course Structure

| | | | |
|---|--|--|------------------|
| (1)General Education | Total | 30 | Credits |
| 1.Required Courses | | 21 | Credits |
| 1.1 Learner Person | | 15 | Credits |
| 001101 | Fundamental English 1 | | 3(3-0-6) |
| 001102 | Fundamental English 2 | | 3(3-0-6) |
| 001201 | Critical Reading and Effective Writing | | 3(3-0-6) |
| 001202 | English in Professional Contexts | | 3(3-0-6) |
| Choose one course from the following Digital Literacy courses: | | | |
| 204100 | CS 100 | Information Technology and Modern Life | 3(3-0-6) |
| 261111 | CPE 111 | Internet and Online Community | 3(3-0-6) |
| 953111 | SE 111 | Software for Everyday Life | 3(3-0-6) |
| 1.2 Innovative Co-creator | | | 3 Credits |
| Can choose one courses from the followings | | | |
| 201110 | SC 110 | Integrated Mathematical Sciences | 3(3-0-6) |
| 201117 | SC 117 | Mathematics and Science in Civilization | 3(3-0-6) |
| 207110 | PHYS 110 | Physics : The Science That Changed the World | 3(3-0-6) |

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|------------------------------------|---|---|--------------------|
| 1.3 Active Citizen | | | 3 Credits |
| 140104 | PG 104 | Citizenship | 3 (3-0-6) |
| 2. Elective Courses | | | 21 Credits |
| 2.1 Learner Person | | | |
| 011269 | PHIL 269 | Philosophy of Sufficiency Economy | 3(3-0-6) |
| 2.2 Innovative Co-creator | | | |
| 011151 | PHIL 151 | Reasoning | 3(3-0-6) |
| 050103 | HUGE 103 | Thai Society and Culture | 3(3-0-6) |
| 159100 | SA 100 | Modern World in Everyday life | 3(3-0-6) |
| 201100 | SC 100 | Integrated Science | 3(3-0-6) |
| 206100 | MATH 100 | Mathematics in Everyday Life | 3(3-0-6) |
| 206109 | MATH 109 | Mathematics in Today's World | 3(3-0-6) |
| 703103 | MGMT 103 | Introduction to Entrepreneurship and Business | 3(3-0-6) |
| 888109 | DIN 109 | Introduction to Emerging Rules of Disruptive Technology in Trade | 3(3-0-6) |
| 013110 | PSY 110 | Psychology and Daily Life | 3(3-0-6) |
| 201114 | SC 114 | Environmental Science in Today's World | 3(3-0-6) |
| 2.3 Active Citizen | | | |
| 154100 | ส.ภม. 100 | ภูมิศาสตร์เบื้องต้น | 3(3-0-6) |
| | GEO 100 | Introduction to Geography | |
| 154104 | ส.ภม. 104 | การอนุรักษ์สิ่งแวดล้อม | 3(3-0-6) |
| | GEO 104 | Environmental Conservation | |
| 888106 | นว.ด. 106 | การสื่อสารและการสร้างเครือข่ายในสังคมออนไลน์ | 3(3-0-6) |
| | DIN 106 | Communication and Networking in Online Society | |
| (2) Field of Specialization | | not least than | 105 Credits |
| 2.1 Core Course | | | 36 Credits |
| 804111 | Fundamental Design in Architecture Studio 1 | | 5(1-8-6) |
| 804112 | Fundamental Design in Architecture Studio 2 | | 5(1-8-6) |
| 804211 | Creative Design in Architecture Studio 1 | | 5(1-8-6) |
| 804212 | Creative Design in Architecture Studio 2 | | 5(1-8-6) |
| 804311 | Creative Design in Architecture Studio 3 | | 5(1-8-6) |
| 804312 | Creative Design in Architecture Studio 4 | | 5(1-8-6) |
| 804412 | Creative Design in Architecture Studio 5 | | 6(1-10-7) |

2.2 Major **not least than** **69 Credits**
 For all major courses, a minimum of 36 credits must be taken from courses 300 level or higher, within these credits at least 18 credits must be courses of 400 level or higher.

| 2.2.1 Required Courses | | 54 | Credits |
|-------------------------------|--|-----------|----------------|
| 804102 | Human Behavior and Built Environment | | 3(3-0-6) |
| 804121 | History of Eastern Creative Arts and Architecture | | 3(3-0-6) |
| 804201 | Design Communication and Presentation | | 3(2-2-5) |
| 804202 | Theory in Digital Communication and Creative Computer Aided Design | | 3(2-2-5) |
| 804221 | Perception of Architectural Space | | 3(3-0-6) |
| 804222 | History of Western Creative Arts and Architecture | | 3(3-0-6) |
| 804231 | Materials and Construction 1 | | 3(3-0-6) |
| 804232 | Materials and Construction 2 | | 3(1-4-4) |
| 804233 | Basic Building and Energy Systems | | 3(1-4-4) |
| 804234 | Architectural Structure 1 | | 3(1-4-4) |
| 804321 | Theory and Philosophy of Postmodern Arts and Architecture | | 3(3-0-6) |
| 804322 | Theory and Philosophy of Contemporary Thai Arts and Architecture | | 3(3-0-6) |
| 804331 | Applied Building and Energy System | | 3(1-4-4) |
| 804332 | Architectural Structure 2 | | 3(2-2-5) |
| 804333 | Advanced Architectural Structure | | 3(1-4-4) |
| 804371 | Sustainable Urban Architecture and Communities | | 3(3-0-6) |
| 804372 | Integrated Fields and Systems in Architecture and Urbanism | | 3(3-0-6) |
| 804483 | Principle in Architecture Professional Practice | | 3(3-0-6) |

| 2.2.2 Major Elective | | not least than | 15 | Credits |
|--|--|-----------------------|-----------|----------------|
| <u>Option 1</u> | | | | |
| 804411 | Selected Topics in Architectural Design Studio | | | 3(0-6-3) |
| 804481 | Architecture Internship | | | 3(0-6-3) |
| <u>Option 2</u> | | | | |
| 804482 | Cooperative Education | | | 6 Credits |
| Both options can choose three courses from the followings | | | | |
| 804401 | Seminar in Evolution of New Contemporary Designs | | | 3(4-4-1) |
| 804402 | Hidden Thought in Architectural Design | | | 3(3-0-6) |

| | | |
|--------|---|----------|
| 804403 | History and Theory of Asian Architecture and Cities | 3(3-0-6) |
| 804404 | Real Estate Economics and Facilities Management | 3(2-2-5) |

| | | | |
|--------------------|----------------|-----|---------|
| 2.3Minor | | | None |
| (3) Free Elective | not least than | 6 | Credits |
| (4) Overall credit | not least than | 141 | Credits |

Study Plan**Year 1**

| First semester | | Credit |
|-----------------------|---|---------------|
| 804121 | History of Eastern Creative Arts and Architecture | 3(3-0-6) |
| 804111 | Fundamental Design in Architecture Studio 1 | 5(1-8-6) |
| 001101 | Fundamental English 1 | 3(3-0-6) |
| 953111 | Software for Everyday Life | 3 |
| 011151 | Reasoning | 3 |
| 159100 | Modern World in Everyday life | 3 |
| Total | | 20 |

| Second semester | | Credit |
|------------------------|--|---------------|
| 804112 | Fundamental Design in Architecture Studio 2 | 5(1-8-6) |
| 804102 | Human Behavior and Built Environment | 3(3-0-6) |
| 001102 | Fundamental English 2 | 3(3-0-6) |
| 140104 | Citizenship | 3 |
| 207110 | Physics : The Science That Changed the World | 3 |
| 888109 | Introduction to Emerging Rules of Disruptive Technology in Trade | 3 |
| Total | | 20 |

Year 2

| First semester | | Credit |
|-----------------------|---|---------------|
| 804201 | Design Communication and Presentation | 3(2-2-5) |
| 804211 | Creative Design in Architecture Studio 1 | 5(1-8-6) |
| 804221 | Perception of Architectural Space | 3(3-0-6) |
| 804222 | History of Western Creative Arts and Architecture | 3(3-0-6) |
| 804231 | Materials and Construction 1 | 3(3-0-6) |
| 001201 | Critical Reading and Effective Writing | 3(3-0-6) |
| Total | | 20 |

| Second semester | | Credit |
|------------------------|--|---------------|
| 001202 | English in Professional Contexts | 3(3-0-6) |
| 804202 | Theory in Digital Communication and Creative Computer Aided Design | 3(2-2-5) |
| 804212 | Creative Design in Architecture Studio 2 | 5(1-8-6) |
| 804232 | Materials and Construction 2 | 3(1-4-4) |
| 804233 | Basic Building and Energy Systems | 3(1-4-4) |
| 804234 | Architectural Structure 1 | 3(1-4-4) |
| Total | | 20 |

Year 3

| First semester | Credit |
|--|-----------|
| 804311 Creative Design in Architecture Studio 3 | 5(1-8-6) |
| 804321 Theory and Philosophy of Postmodern Arts and Architecture | 3(3-0-6) |
| 804331 Applied Building and Energy System | 3(1-4-4) |
| 804332 Architectural Structure 2 | 3(2-2-5) |
| 804371 Sustainable Urban Architecture and Communities | 3(3-0-6) |
| Free Elective | 3 |
| Total | 20 |

| Second semester | Credit |
|---|-----------|
| 804312 Creative Design in Architecture Studio 4 | 5(1-8-6) |
| 804322 Theory and Philosophy of Contemporary Thai Arts and Architecture | 3(3-0-6) |
| 804333 Advanced Architectural Structure | 3(1-4-4) |
| 804372 Integrated Fields and Systems in Architecture and Urbanism | 3(3-0-6) |
| Free Elective | 3 |
| Total | 17 |

Year 4

Option 1

| First semester | Credit |
|---|----------|
| 804411 Selected Topics in Architectural Design Studio | 3(0-6-3) |
| 804481 Architecture Internship | 3(0-6-3) |
| Total | 6 |

Option 2

| First semester | Credit |
|------------------------------|-----------|
| 804482 Cooperative Education | 6(0-30-0) |
| Total | 6 |

| Second semester | Credit |
|--|-----------|
| 804412 Creative Design in Architecture Studio 5 | 6(1-10-7) |
| 804483 Principle in Architecture Professional Practice | (6-0-3)3 |
| Major Elective | 3 |
| Major Elective | 3 |
| Major Elective | 3 |
| Total | 18 |