

Bachelor of Science Program in Computer Science (International Program)

1. Code and Program Title

In Thai : หลักสูตรวิทยาศาสตรบัณฑิต สาขาวิชาวิทยาการคอมพิวเตอร์ (หลักสูตรนานาชาติ)
In English : Bachelor of Science Program in Computer Science
(International Program)

2. Degree Offered and Field of Study

In Thai Full Name : วิทยาศาสตรบัณฑิต (วิทยาการคอมพิวเตอร์)
Abbreviation : วท.บ. (วิทยาการคอมพิวเตอร์)
In English Full Name : Bachelor of Science (Computer Science)
Abbreviation : B.Sc. (Computer Science)

3. Major Subject (If Applicable) –

4. Total Credits Required No less than 164 credits

5. Graduates' advancement

| | |
|-------------------------|---|
| Career opportunities | Every student can pursue any of the following career paths: 1) Software developers/engineers capable of designing, implementing, and deploying solutions from the ground up 2) Data scientists, data platform engineers, and machine learning engineers 3) Researchers in the commercial sector and in academia 4) Faculty position, teaching, or teaching assistant in the field of computing or related areas 5) Project manager, technical consultants and solution engineers in various fields related to computer science, such as innovative agriculture and smart medicine. |
| Further fields of study | Continue their studies for a higher degree in various fields of computing and related disciplines, including robotics and bioinformatics |

6. Curriculum Structure

1) Foundation Courses

Non-Credit

2) General Education

no less than

30 Credits

| General Education Group | GC2 Track* | FE and GC Track* |
|---|------------|------------------|
| 1. English Communication | 10 | 14 |
| 2. GE Literacies | 12 | 12 |
| - MU Literacy | 2 | 2 |
| - Health Literacy | 2 | 2 |
| - Science and Environmental Literacy | 2 | 2 |
| - Intercultural and Global Awareness Literacy | 2 | 2 |
| - Civic Literacy | 2 | 2 |
| - Finance and Management Literacy | 2 | 2 |
| 3. GE Electives | 8 | 4 |
| Total | 30 | 30 |

*Students will be placed into specific tracks based on their achievement in the essay portion of the MUIC entrance exam.

3) Specific Courses

no less than 106 Credits

1. Core Courses

30 Credits

2. Major Required Courses

52 Credits

3. Capstone Required Courses

8 Credits

4. Major Elective Courses

16 Credits

4) I-Design Electives

no less than 20 Credits

5) Free Electives

no less than 8 Credits

| 1) Foundation Courses | | Non-credit |
|-----------------------|------------------------|------------|
| ICMA100 | Foundation Mathematics | 0 |
| ICMA101 | Precalculus | 0 |

Note I: For B.B.A. students, students whose Mathematics placement is below ICMB151 Business Mathematics are required to take ICMA100 Foundation Mathematics and pass the course with the grade of "S" before moving to ICMB151 Business Mathematics.

For B.Sc. and B.Eng. students, students whose Mathematics placement is below ICMA106 Calculus I and/or ICMA151 Statistics for Science I are required to take ICMA101 Precalculus and pass the course with the grade of "S" before moving to ICMA106 Calculus I and/or ICMA151 Statistics for Science I.

For B.A.Sc. students, students whose Mathematics placement is below ICMA106 Calculus I and ICMA151 Statistics for Science I are required to take ICMA101 Precalculus and pass the course with the grade of "S" before moving to ICMA106 Calculus I and ICMA151 Statistics for Science I.

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| ICME101 | Foundation English: Communication Skills | 0 |
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Note I: Based on their achievement on the essay portion of the MUIC entrance exam, students whose English placement is below ICGC104 English Studies I: The Writer's Toolkit will be placed into the "FE Track". These students will be required to take ICME101 Foundation English: Communication Skills and pass the course with the grade of "S" before moving to ICGC104 English Studies I: The Writer's Toolkit.

2) General Education Courses

30 Credits

English Communication

10 –14 Credits

Note I: Based on their achievement on the essay portion of the MUIC entrance exam, students will be placed into 3 following tracks: 'FE Track', 'GC Track' and 'GC2 Track'.

- 'FE Track' – Students who are placed into 'FE Track' will be required to take ICME101 (a non-credit course) and complete 14 credits in English Communication: ICGC104, ICGC105, ICGC106 in order, and finally, any 200+ level English courses.
- 'GC Track' – Students who are placed into 'GC Track' will be required to complete 14 credits in English Communication: ICGC104, ICGC105, ICGC106 in order, and finally, any 200+ level English courses.
- 'GC2 Track' – Students who are placed into 'GC2 Track' will be required to complete 10 credits in English Communication: ICGC105, ICGC106 in order, and finally, any 200+ level English courses.

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|---------|--|---|
| ICGC104 | English Studies I: The Writer's Toolkit | 4 |
| ICGC105 | English Studies II: The Writer's Voice | 4 |
| ICGC106 | English Studies III: Public Speaking | 4 |
| ICGC221 | English Studies IV: The World of English - Global Realities | 2 |
| ICGC222 | English Studies IV: The World of English - Literary Analysis | 2 |
| ICGC223 | English Studies IV: The World of English - Creative Writing | 2 |
| ICGC224 | English Studies IV: The World of English - Advanced Oral Communication | 2 |
| ICGC226 | English Studies IV: The World of English - Literature Into Film | 2 |
| ICGC228 | English Studies IV: The World of English - Language and Culture | 2 |
| ICGC230 | English Studies IV: The World of English - First and Second Language Acquisition | 2 |
| ICGC231 | English Studies IV: The World of English - Poetry | 2 |
| ICGC232 | English Studies IV: The World of English - The Short Story and the Novel | 2 |
| ICGC233 | English Studies IV: The World of English - Drama | 2 |
| ICGC234 | English Studies IV: The World of English - Literary Non-fiction | 2 |
| ICGC235 | English Studies IV: The World of English - Writing for Research | 2 |

GE Literacies

12 Credits

Note I: Students must complete courses in the following six categories: MU Literacy, Health Literacy, Science & Environment Literacy, Intercultural & Global Awareness Literacy, and Finance & Management Literacy. Each category requires a minimum of 2 credits.

Note II: If a student selects a 4-credit course to fulfill a 2-credit literacy requirement, the excess 2 credits cannot be allocated or applied toward GE Elective or Free Elective credits. Instead, these excess credits will be entirely allocated to the literacy for which they were originally intended.

● MU Literacy

2 Credits

| | | |
|---------|--------------------------------------|---|
| ICGB101 | Project Management for Impacts | 2 |
| ICGB108 | Event for Good | 2 |
| ICGN139 | Scientific Inquiry and the Community | 2 |
| ICGS169 | Learning by Doing | 2 |
| ICGS171 | Digital Campaign for Gender Issues | 2 |

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|---------|---|---|
| ICGS172 | Service Learning - Making Change | 4 |
| ICGS173 | Service Learning - Campaigning for a Cause | 4 |
| ICGS175 | Social Innovation and Sustainability | 2 |
| ICGS176 | Sustainable Cooking | 2 |
| ICGS177 | Social Innovation: Empowering Sustainable Communities | 2 |
| ICGT107 | Innovation: Inside Out | 2 |

• **Health Literacy**

2 Credits

| | | |
|---------|--|---|
| ICGH136 | Sound & Soul: A Journey of Music, Emotion, and Well-being | 2 |
| ICGH143 | Flowers and Fragrances for Health | 2 |
| ICGN135 | Personal Health and Well being | 2 |
| ICGP101 | American Flag Football | 1 |
| ICGP102 | Badminton | 1 |
| ICGP103 | Basketball | 1 |
| ICGP104 | Body Fitness | 1 |
| ICGP105 | Cycling | 1 |
| ICGP106 | Discover Dance | 1 |
| ICGP107 | Golf | 1 |
| ICGP108 | Mind and Body | 1 |
| ICGP109 | Selected Topics in Sports | 1 |
| ICGP110 | Self Defense (Striking) | 1 |
| ICGP111 | Self Defense (Grappling) | 1 |
| ICGP112 | Soccer | 1 |
| ICGP113 | Social Dance | 1 |
| ICGP114 | Swimming | 1 |
| ICGP115 | Tennis | 1 |
| ICGP116 | Volleyball | 1 |
| ICGP118 | Health and Wellness | 2 |
| ICGP119 | Mindful Food and Well-being | 2 |
| ICGP120 | Mind and Body: Navigating the Interplay of Brain, Behavior, and Well-being | 2 |
| ICGS121 | Abnormal Colleagues: how do I make this work? | 4 |
| ICGS126 | Introduction to Psychology | 4 |

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| ICGS155 | Pathway to Purpose: Life Design and Self-Exploration | 4 |
| ICGS164 | Positive Psychology | 2 |
| ICGS178 | Unmasking Human Behaviour: Exploring Psychological Truths about Behaviour | 2 |
| ICGS179 | Health and Society | 2 |
| ICLL100 | Self Development | 2 |

● **Science & Environment Literacy**

2 Credits

| | | |
|---------|--|---|
| ICGH131 | Unraveling the Anthropocene: A Philosophical Critique of Earth's Shifts and Humanity's Roles | 2 |
| ICGH142 | Fantasy Literature's Environmental Message | 2 |
| ICGH144 | A Candle in the Dark: How to Tell Fact from Fiction | 2 |
| ICGN105 | Ecology, Ecosystems and Socio-Economics in Southeast Asia | 4 |
| ICGN107 | The Chemistry of Everyday Life | 4 |
| ICGN108 | Essentials of Culinary Science for Food Business | 4 |
| ICGN111 | Physics for CEO | 4 |
| ICGN113 | Plants, People and Poisons | 4 |
| ICGN114 | The Scientific Approach and Society | 4 |
| ICGN115 | Human Evolution, Diversity and Health | 4 |
| ICGN116 | Understanding and Visualizing Data | 4 |
| ICGN119 | Computer Essentials | 4 |
| ICGN123 | The Earth's Dynamic Structure | 4 |
| ICGN124 | Climate Change and Human Society | 4 |
| ICGN126 | Plant Society | 2 |
| ICGN127 | Practical Mathematics | 2 |
| ICGN128 | Climate Emergency, Biodiversity Crisis, and Humanity at Risk | 2 |
| ICGN129 | Programming for Problem Solving | 4 |
| ICGN130 | Cryptography: The Science of Making and Breaking Codes | 2 |
| ICGN134 | Introduction to Artificial Intelligence | 2 |
| ICGN136 | Creator Workshop | 2 |
| ICGN137 | Star Wanderer | 2 |
| ICGN138 | Cosmetics Chemistry | 2 |
| ICGN140 | Food Energy for Health | 2 |

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| ICGN141 | Life in the Sea | 2 |
| ICGN142 | Energy and the Environment | 2 |
| ICGN143 | Gaia: Life on Earth | 2 |
| ICGT101 | Technology-Enhanced Learning: Harnessing AI & Digital Tools for Academic Success | 2 |
| ICGT102 | Digital Document Management | 2 |
| ICGT103 | Computational Thinking | 2 |
| ICGT104 | Tell a Great Story with Data | 2 |
| ICGT105 | No-Code Application Development | 2 |
| ICGT106 | Data and Spreadsheets | 2 |
| ICLL102 | Skills for a Digital World | 2 |

● **Intercultural & Global Awareness Literacy**

2 Credits

| | | |
|---------|---|---|
| ICGH107 | Contemporary Art and Visual Culture | 4 |
| ICGH109 | Creative Thinking Through Art and Design | 4 |
| ICGH110 | Drawing as Visual Analysis | 4 |
| ICGH115 | Cinematic Language and Applications | 4 |
| ICGH116 | World Cinemas | 4 |
| ICGH117 | Drawing as Creative Expression | 4 |
| ICGH118 | Photography Visualizing in the Digital Age | 4 |
| ICGH120 | Thai and ASEAN Cinema | 4 |
| ICGH124 | Life Drawing and Anatomy | 4 |
| ICGH128 | Internet Celebrity, Culture and the Media | 4 |
| ICGH130 | The Logic Lab: Crafting Coherent Arguments | 2 |
| ICGH132 | The Rise and Fall of Ancient Athens | 2 |
| ICGH135 | The Horror Film | 2 |
| ICGH137 | Apocalypse Now, or Never, or Maybe? | 2 |
| ICGH139 | Spirituality, Sustainability, Ecosystems | 2 |
| ICGH141 | SPQR—Glimpses of Rome | 2 |
| ICGH145 | Essentials to Photography, Skills and Practices | 2 |
| ICGH146 | Acting for Self-Discovery and Empathizing with Others | 2 |
| ICGH147 | Myth and the Masks of the Divine | 2 |
| ICGH148 | Quest for Global Justice: A Philosophical Inquiry | 2 |

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|---------|--|---|
| ICGL101 | Elementary German I | 4 |
| ICGL102 | Elementary German II | 4 |
| ICGL103 | Elementary German III | 4 |
| ICGL111 | Elementary Japanese I | 4 |
| ICGL112 | Elementary Japanese II | 4 |
| ICGL113 | Elementary Japanese III | 4 |
| ICGL121 | Elementary French I | 4 |
| ICGL122 | Elementary French II | 4 |
| ICGL123 | Elementary French III | 4 |
| ICGL131 | Elementary Chinese I | 4 |
| ICGL132 | Elementary Chinese II | 4 |
| ICGL133 | Elementary Chinese III | 4 |
| ICGL141 | Elementary Spanish I | 4 |
| ICGL142 | Elementary Spanish II | 4 |
| ICGL143 | Elementary Spanish III | 4 |
| ICGL160 | Introduction to Thai Language and Culture | 4 |
| ICGL161 | Elementary Thai I | 4 |
| ICGL162 | Elementary Thai II | 4 |
| ICGL163 | Elementary Thai III | 4 |
| ICGL164 | Thai Writing for Specific Purposes in Workplace *for native Thai students | 2 |
| ICGL171 | Diversities in Multilingual Societies | 2 |
| ICGL172 | Chinese Influence in Thai Society | 2 |
| ICGL173 | Introduction to Japanese Societies | 2 |
| ICGL174 | From Siesta to Fiesta: Introduction to Spanish and Latin American Culture | 2 |
| ICGL201 | Pre-Intermediate German I | 4 |
| ICGL202 | Pre-Intermediate German II | 4 |
| ICGL203 | Pre-Intermediate German III | 4 |
| ICGL211 | Pre-Intermediate Japanese I | 4 |
| ICGL212 | Pre-Intermediate Japanese II | 4 |
| ICGL213 | Pre-Intermediate Japanese III | 4 |
| ICGL221 | Pre-intermediate French I | 4 |

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|---------|---|---|
| ICGL222 | Pre-intermediate French II | 4 |
| ICGL223 | Pre-intermediate French III | 4 |
| ICGL231 | Pre-Intermediate Chinese I | 4 |
| ICGL232 | Pre-Intermediate Chinese II | 4 |
| ICGL233 | Pre-Intermediate Chinese III | 4 |
| ICGL241 | Pre-Intermediate Spanish I | 4 |
| ICGL242 | Pre-Intermediate Spanish II | 4 |
| ICGL243 | Pre-Intermediate Spanish III | 4 |
| ICGN125 | Games and Learning | 2 |
| ICGS112 | Geography of Human Activities | 4 |
| ICGS128 | Global Gastronomy and Cuisines | 4 |
| ICGS131 | Introduction to International Studies | 4 |
| ICGS132 | Career Preparation in a Globalized World | 4 |
| ICGS133 | Foundation of Mediterranean Cultures | 4 |
| ICGS137 | Witchcraft and Gender Representation | 4 |
| ICGS143 | Introduction to Air Transport and Tourism | 4 |
| ICGS156 | Fashion and Society | 2 |
| ICGS157 | Asian Religious Traditions | 2 |
| ICGS159 | The Self and Modern Media | 2 |
| ICGS161 | Skills in Dealing with People Across Cultures | 2 |
| ICGS162 | Arts, Culture and Tourism Development | 2 |
| ICGS165 | Tea Studies | 2 |
| ICGS167 | Coffee Studies | 2 |
| ICGS168 | Faith a Lifestyle | 2 |
| ICGS180 | Cafe Story and Slow food | 2 |
| ICGS181 | Cuisine and Culture | 2 |
| ICGS182 | Humor Horizons | 2 |

● **Civic Literacy**

2 Credits

| | | |
|---------|--|---|
| ICGH126 | Behavioral Ethics: Why Good People Do Bad Things | 2 |
| ICGH129 | Searching for Meaning | 2 |
| ICGH133 | Socrates, His Predecessors and Successors | 2 |
| ICGH134 | Digital Media Literacy: Skills for 21st Century Learning | 2 |

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|---------|---|---|
| ICGH138 | The Philosophies of Asia | 2 |
| ICGH140 | Ethics and Evolution | 2 |
| ICGH149 | Law, Technology, and Society | 2 |
| ICGH150 | Global Perspectives on Free Expression in the Digital Age | 2 |
| ICGN131 | Digital Search Literacy | 2 |
| ICGN132 | Digital Security and Privacy | 2 |
| ICGN144 | Environmental Ethics | 2 |
| ICGN145 | Food Integrity and Food Fraud: When a Food Product Is Not What It Seems | 2 |
| ICGS134 | Is Democracy Good? | 4 |
| ICGS136 | Social and Health Issues in Thailand | 4 |
| ICGS140 | Fake News, Censorship and the Politics of Truth | 4 |
| ICGS147 | Women in Leadership | 4 |
| ICGS158 | Contemporary Issues in Thailand | 2 |
| ICGS160 | Self and Society | 2 |
| ICGS163 | Popular Media and Conflicts | 2 |
| ICGS166 | Power and Politics | 2 |
| ICGS170 | Civic Action in Thailand | 2 |
| ICGS183 | Media and Community | 2 |

● **Finance & Management Literacy**

2 Credits

| | | |
|---------|--|---|
| ICGB102 | Navigating the Market Landscape | 2 |
| ICGB103 | Decoding Economic News | 2 |
| ICGB104 | Entrepreneurship in a Disruptive Environment | 2 |
| ICGB105 | Personal Finance Literacy | 2 |
| ICGB106 | The Business of Fashion | 2 |
| ICGB107 | Tourism Management Perspectives | 2 |
| ICGB109 | Business Event Essentials | 2 |
| ICGB110 | Management Styles of Effective Leaders | 2 |
| ICGB111 | Leadership in a Global Society | 2 |
| ICGB112 | The Art of Pricing | 2 |
| ICGB113 | Crisis Management in Service Businesses | 2 |
| ICGB114 | Cultural Strategies for Success: Unveiling Eastern Business Dynamics | 2 |

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|---------|---|---|
| ICGB115 | Money: Deciphering Currencies of Value | 2 |
| ICGB116 | Managing Self and Working with Others | 2 |
| ICGH101 | Biotechnology: from Science to Business | 4 |
| ICGS102 | Business Sustainability and the Global Climate Change | 4 |
| ICGS135 | Entrepreneurial Accounting | 4 |
| ICGS153 | Social Media Management for Service Sector | 2 |
| ICGS174 | The Art of Leadership in Practice: Inspiration | 2 |
| ICGS184 | Healthy Habits, Happy Shoppers: Exploring Health Literacy in Consumer Decisions | 2 |
| ICLL101 | Professional Development | 2 |

General Education Elective Courses

4-8 Credits

Students need to take remaining courses in any GE category to fulfill their 30 credits requirement of GE:4 credits for students whose English Communication track are placed into 'FE track' or 'GC Track' and 8 credits for students whose English Communication track are placed into 'GC2 Track'. Partial credits of GE course that exceed the GE requirements cannot be counted towards Free Electives.

3) Specific Courses

no less than 106 Credits

1. Core Courses

30 Credits

| | | |
|----------|---------------------------------------|---|
| ICCS 205 | Numerical Computation | 4 |
| ICCS 206 | Discrete Mathematics | 4 |
| ICCS 309 | Scientific Research and Presentations | 4 |
| ICMA 106 | Calculus I | 4 |
| ICMA 151 | Statistics for Science I | 4 |
| ICPY 101 | Physics I | 4 |
| ICPY 102 | Physics II | 4 |
| ICPY 105 | Integrated Laboratory in Physics I | 2 |

2. Major Required Courses**52 Credits**

| | | |
|----------|---|---|
| ICCS 102 | Coding for All ¹ | 4 |
| ICCS 111 | Programming and Abstractions | 4 |
| ICCS 121 | System Skills and Low-level Programming | 4 |
| ICCS 209 | Data Structures | 4 |
| ICCS 225 | Database Foundations | 4 |
| ICCS 227 | Principles of Computer Systems and Architecture | 4 |
| ICCS 261 | Principles of Data Science | 4 |
| ICCS 271 | Interaction Design | 4 |
| ICCS 311 | Functional and Parallel Programming | 4 |
| ICCS 312 | Algorithms and Tractability | 4 |
| ICCS 370 | Software System Construction | 4 |
| ICMA 218 | Multivariable Calculus | 4 |
| ICMA 240 | Linear Algebra I | 4 |

3. Capstone Required Courses**8 Credits****Option 1: Senior Project**

| | | |
|----------|---------------------------------------|---|
| ICCS 402 | Senior Project in Computer Science I | 4 |
| ICCS 403 | Senior Project in Computer Science II | 4 |

Option 2: Cooperative and Work integrated Education

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|----------|---|---|
| ICCS 431 | Cooperative and Work integrated Education Seminar | 2 |
| ICCS 432 | Cooperative and Work integrated Education I | 3 |
| ICCS 433 | Cooperative and Work integrated Education II | 3 |

4. Major Elective Courses**at least 16 Credits**

| | | |
|----------|--|---|
| ICCS 302 | Human Computer Interaction and Visualization | 4 |
| ICCS 303 | Competitive Programming | 4 |
| ICCS 315 | Applied Algorithms | 4 |

¹ For computer science majors, students have the option to bypass ICCS 102 by successfully completing a placement test. However, they must enroll in an additional ICCS course to meet the required credit count for the curriculum. For students from other majors, it is possible to substitute ICCS 102 with ICCS 111, provided they pass the placement test.

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|----------|---|---|
| ICCS 320 | Computer Networks | 4 |
| ICCS 322 | Operating Systems Design and Implementation | 4 |
| ICCS 323 | IoT Electronics | 4 |
| ICCS 324 | Computer Architecture | 4 |
| ICCS 340 | Web Application Development | 4 |
| ICCS 362 | Data Engineering | 4 |
| ICCS 371 | Scalable Systems | 4 |
| ICCS 372 | Software Engineering | 4 |
| ICCS 373 | Cloud Computing | 4 |
| ICCS 404 | Computer Graphics and Augmented Reality | 4 |
| ICCS 412 | Topics in Theory I | 4 |
| ICCS 413 | Topics in Theory II | 4 |
| ICCS 414 | Topics in Theory III | 4 |
| ICCS 418 | Computer System Security | 4 |
| ICCS 423 | Topics in Systems I | 4 |
| ICCS 424 | Topics in Systems II | 4 |
| ICCS 425 | Topics in Systems III | 4 |
| ICCS 445 | E-Commerce Innovation and Technology Management | 4 |
| ICCS 448 | Mobile Application Programming | 4 |
| ICCS 461 | Machine Learning | 4 |
| ICCS 462 | Deep Learning | 4 |
| ICCS 463 | Special Topics in Machine Learning I | 4 |
| ICCS 464 | Special Topics in Machine Learning II | 4 |
| ICCS 465 | Special Topics in Machine Learning III | 4 |
| ICCS 471 | Topics in Software Technology I | 4 |
| ICCS 472 | Topics in Software Technology II | 4 |
| ICCS 473 | Topics in Software Technology III | 4 |
| ICCS 491 | Topics in Computer Science I | 4 |
| ICCS 492 | Topics in Computer Science II | 4 |
| ICMA 214 | Ordinary Differential Equations | 4 |
| ICMA 241 | Linear Algebra II | 4 |
| ICMA 322 | Advanced Calculus | 4 |

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|----------|------------------|---|
| ICMA 346 | Optimization | 4 |
| ICMA 350 | Probability | 4 |
| ICMA 424 | Abstract Algebra | 4 |

4) I-Design Electives

20 Credits

The purpose of the I-Design electives is to promote multidisciplinary learning. Students are encouraged to explore courses offered by diverse disciplines across MUIC, Mahidol University, and partner institutions. The I-Design electives can be satisfied upon the completion of the following course categories:

1. Minor courses offered by any program in MUIC
2. Certificate courses offered by any program in MUIC
3. Any major courses offered by any program in MUIC
4. Any major courses offered in Mahidol University (including undergraduate and graduate level courses). Courses must be approved by the student's advisor.
5. Any major courses offered at partner institutions (who have MOU with Mahidol University and/or MUIC). Courses must be approved by the student's advisor.

5) Free Electives

8 Credits

Students can take any courses offered by MUIC / Mahidol University or any major courses offered by the partner institutions (with MOU) as free elective courses with the approval from the advisor.

Mahidol University
International College