

# Information Technology Track

The Information Technology (IT) Track is designed for those who wish to use their mathematical modeling skills to create software and systems. This opens a career in the technology industry, where the student uses his abilities in the deployment and management of IT resources.

The track will ingrain best practices in the development of processes that will directly benefit the organization, while also tackling social issues that could find solutions using technological tools. The subjects covered will allow students to gain proficiency in hardware support, applications development, systems analysis, and various programming languages.

As all forms of technology fundamentally rely on mathematical principles, this track allows students to better understand the underlying concepts, so they can tackle issues more effectively. As information technology is a wide field spanning areas from web design and development to computer networking, students pursuing this track have multiple options for advanced education.

## First Year

### First Semester

**APM1121** – Calculus 1

**APM1103** – Fundamentals of Computing 1

**APM1101** – Fundamental Concepts of Mathematics

**GED0103** – Mathematics in the Modern World

**GED0105** – Wika, Kultura at Lipunan

**GED0101** – College Academic Skills in English

**WRP0101** – Wellness and Recreation Program 1

**NST0101** – National Service Training Program 1

Total units: 23.5

## Second Semester

**APM1122** – Calculus 2

**APM1104** – Fundamentals of Computing 2

**ITC1101** – Multimedia 1

**GED0110** – Understanding the Self

**GED0108** – Retorika at Panitikan ng Pilipinas

**GED0109** – Speech Communication

**APM1107** – Discrete Mathematics

**WRP0102** – Wellness and Recreation Program 2

**NST0102** – National Service Training Program 2

Total units: 26.5

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## Second Year

### First Semester

**APM1123** – Calculus 3

**ITC1102** – Multimedia 2

**APM1301** – General Physics 1 (Lecture)

**APM1302** – General Physics 1 (Laboratory)

**APM1110** – Probability and Probability Distributions

**GED0115** – Pag-aaral ng Wika at Kulturang Rehiyonal

**GED0113** – The Filipino in the Contemporary World

**GED0111** – Purposive Communication

**WRP0103** – Wellness and Recreation Program 3

Total units: 24.5

## Second Semester

**APM1124** – Differential Equations 1

**APM1111** – Statistical Theory

**ITC1103** – Multimedia 3

**ITC1105** – Database Management Systems 1

**APM1303** – General Physics 2

**GED0114** – Applied Ethics in Contemporary Times

**GED0107** – Readings in Philippine History

**GED0106** – Art Appreciation

**WRP0104** – Wellness and Recreation Program 4

Total units: 25.5

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## Third Year

### First Semester

**APM1127** – Linear Algebra

**APM1129** – Advanced Calculus 1

**APM1131** – Theory of Interest

**ITC1106** – .Net Programming 1

**GED0104** – Science, Technology and Society

**GED0112** – Scholarly Inquiry

**ITC1107** – Introduction to Java Programming

**WRP0105** – Wellness and Recreation Program 5

Total units: 22.5

## **Second Semester**

**APM1137** – Numerical Analysis

**APM1134** – Operations Research 1

**ITC1108** – .Net Programming 2

**APM1225** – Actuarial Mathematics 1

**APM1205** – Linear Models

**ITC1109** – Systems Analysis and Design

**ITC1110** – Introduction to Mobile Programming

**WRP0106** – Wellness and Recreation Program 6

Total units: 22.5

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## **Summer Term**

**ITC1201** – Internship

Total units: 6

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# Fourth Year

## First Semester

**APM1140** – Mathematical Modeling

**APM1230** – Mathematical Finance

**ITCEL01** – Free Elective 1

**ITC1202** – Thesis 1

**ELS1309** – Technical Writing in the Professions

**ITC1111** – Software Development

**WRP0107** – Wellness and Recreation Program 7

Total units: 19.5

## Second Semester

**ITC1112** – Issues and Trends

**ITC1203** – Thesis 2

**GED0102** – The Life and Works of Rizal

**APM1235** – Graph Theory and its Applications

**ITCEL02** – Free Elective 2

**WRP0108** – Wellness and Recreation Program 8

Total units: 16.5

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*Total program units: 187*