

## UNDERGRADUATE PATHS TO MATH 2024-2025

Mathematics builds from one concept to the next, and so do the courses that lead to Calculus and Quantitative Reasoning. Where students begin their study of math at DePaul depends on the skills they have demonstrated through a combination of courses in high school and the results of the ALEKS Placement Assessment. It is important to note that all students at DePaul take math classes. The number and type of math courses required will depend upon the student's major.

This "Path to Math" shows you where certain courses fit into in the **full math sequence required for your intended major**. Please understand that this is only an overview and specific courses may be subject to change. The math prerequisites offered through FYAS for each major are shaded in orange, followed by the required courses in the math sequence for your intended major. If needed, additional advanced math courses beyond those outlined below are determined through consulting and planning with an academic advisor.

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### JARVIS COLLEGE OF COMPUTING & DIGITAL MEDIA

#### Math & Computer Science Majors\*\*

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131*	Precalculus and Trigonometry
MAT 140	Discrete Mathematics I
MAT 141	Discrete Mathematics II
MAT 147/150*	Calculus I
MAT 148/151*	Calculus II
MAT 149/152*	Calculus III

#### Information Systems Majors

##### Information Technology (All Majors) Network Engineering and Security Majors Game Design Majors

##### User Experience Design Majors

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
IT 223	Data Analysis

#### Computer Science + Economics

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 137	Business Statistics
MAT 140	Discrete Mathematics I
MAT 141	Discrete Mathematics II

#### Data Science (BS)\*\*

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131*	Precalculus and Trigonometry
MAT 140	Discrete Mathematics I
IT 223	Data Analysis
MAT 150	Calculus I
MAT 151	Calculus II
MAT 152	Calculus III

#### Animation (BA Majors)

##### Film and Television (BA Majors)

MAT 100	Introduction to Quantitative Reasoning
MAT 120	Quantitative Reasoning
MCD	Math and Computing Domain Requirement^

#### Animation (BFA majors)

##### Graphic Design (BFA majors)

##### Film and Television (BFA majors)

MAT 100	Introduction to Quantitative Reasoning
MAT 120	Quantitative Reasoning

#### Intelligent Systems Engineering

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131*	Precalculus and Trigonometry
MAT 140	Discrete Mathematics I
MAT 141	Discrete Mathematics II
MAT 150	Calculus I
MAT 151	Calculus II
MAT 152	Calculus III

#### Industrial Design (BFA)

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131	Precalculus and Trigonometry
MAT 120	Quantitative Reasoning

#### Game Programming Majors

##### Cybersecurity Majors

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 140	Discrete Mathematics I

#### Computer Science + Artificial Intelligence

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131*	Precalculus and Trigonometry
IT 223	Data Analysis
MAT 150	Calculus I
MAT 220	Applied Linear Algebra

#### Computer Science+ Geography

##### Computer Science + Animation (All Majors)

##### Computer Science Game Systems

##### Computer Science + History

##### Computer Science + WRD

##### Computer Science Software Development Majors\*\*

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 140	Discrete Mathematics I
MAT 141	Discrete Mathematics II

### COLLEGE OF COMMUNICATION

#### All Majors

MAT 100	Introduction to Quantitative Reasoning
MAT 120	Quantitative Reasoning
MCD	Math and Computing Domain Requirement^

### DRIEHAUS COLLEGE OF BUSINESS

#### All Majors^^^

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 137	Business Statistics

^^^Except Actuarial Science BSB and Economic Data Analytics BSB

#### Economic Data Analytics (BSB)\*\*

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131	Precalculus and Trigonometry
MAT 135/150	Business Calculus 1 / Calculus I

#### Actuarial Science (BSB)\*\*

MAT 095	Introductory Algebra
MAT 101	Intermediate Algebra
MAT 130	Functions and Mathematical Models
MAT 131*	Precalculus and Trigonometry
MAT 147/150*	Calculus I
MAT 148/151*	Calculus II
MAT 149/152*	Calculus III

\* MAT 147, 148 & 149 can substitute for MAT 131, 150/151/152.

\*\* Additional advanced math courses required for this major; please discuss with your academic advisor.

^ Additional Math and Computing Domain requirement(s); please discuss with your advisor upon completion of Quantitative Reasoning (MAT 120).

**COLLEGE OF EDUCATION**

**Secondary Education Environmental Science Majors**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry

**Early Childhood Education Majors**

**Special Education Majors**

**Secondary Ed English, History & Visual Arts Majors**

**Physical Education Majors (all)**

**World Language Education Majors**

**Middle Grades Education \*\*\***

MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**Elementary Education Majors**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^
MAT	110**	Foundations of Math for Elementary Teachers I
MAT	111**	Foundations of Math for Elementary Teachers II

**Secondary Education Chemistry Majors**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150*	Calculus I
MAT	148/151*	Calculus II
MAT	149/152*	Calculus III

**Exercise Science Majors**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry
MCD		Math and Computing Domain Requirement^

**Secondary Education Biology Majors**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150*	Calculus I
MAT	148/151*	Calculus II

**Secondary Education Mathematics Majors\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	150	Calculus I
MAT	151	Calculus II
MAT	152	Calculus III

**Secondary Education Social Science Majors**

MAT	095****	Introductory Algebra
MAT	100****	Introduction to Quantitative Reasoning
MAT	101****	Intermediate Algebra
MAT	130****	Functions and Mathematical Models
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

\*\*\*\* The math requirements are determined by the Secondary Field of Study

**Secondary Education Physics Majors\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150*	Calculus I
MAT	148/151*	Calculus II
MAT	149/152*	Calculus III

**COLLEGE OF SCIENCE & HEALTH**

**Actuarial Science BS\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150*	Calculus I ^^^^
MAT	148/151*	Calculus II ^^^^
MAT	149/152*	Calculus III ^^^^

Students who take MAT 147, 148, & 149 are not required to take MAT 131 before starting 147.

**Biochemistry (All Majors)**

**Chemistry BA & BS (All Majors)**

**Mathematics BA & BS (All Majors)**

**Environmental Science Majors (BS)**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150/*	Calculus I ^^^^
MAT	148/151*	Calculus II ^^^^
MAT	149/152*	Calculus III ^^^^

Students who take MAT 147, 148, & 149 are not required to take MAT 131 before starting 147.

**Psychology Bachelor of Science (Healthcare)\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)

**Psychology Bachelor of Science (General and Neuroscience)\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**Neuroscience\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)

**Data Science BA\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
IT	223	Data Analysis
MAT	140	Discrete Mathematics I
MAT	147/150*	Calculus I ^^^^
MAT	148/151*	Calculus II ^^^^
MAT	149/152*	Calculus III ^^^^

**Biological Sciences (BS)**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150*	Calculus I ^^^^
MAT	148/151*	Calculus II ^^^^
MAT	149	Calculus III ^^^^

MAT 149 is only required if taking MAT 147 & 148.

**Biological Sciences (BA)**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MCD		Math and Computing Domain Requirement^

**Psychology Bachelor of Arts**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**Psychology Bachelor of Arts (Industrial-Org Psychology)**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning

**Neuroscience (Computational Neuroscience Concentration)\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)
MAT	150	Calculus I

\* MAT 147, 148 & 149 can substitute for MAT 131, 150/151/152.

\*\* Additional advanced math courses required for this major; please discuss with your academic advisor.

\*\*\* College of Education Middle Grades Education may require additional math courses depending on concentration.

^ Additional Math and Computing Domain requirement(s); please discuss with your advisor upon completion of Quantitative Reasoning (MAT 120).

^^^ Students may take Summer Calculus Math sequence (155/156) in place of the Calculus sequences above.

**COLLEGE OF SCIENCE & HEALTH (continued)**

**Math and Computer Science Majors \*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II
MAT	147/150*	Calculus I ^^^^
MAT	148/151*	Calculus II ^^^^
MAT	149/152*	Calculus III ^^^^

Students may take MAT 215 in place of MAT 140 and MAT 141

**Health Sciences Bioscience General (General Track and Medical Track)\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)

**Health Sciences Bioscience General (Pre-Nursing Track)\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)

**Environmental Studies Majors (BA)**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**Physics and Astrophysics (All Majors)**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150*	Calculus I ^^^^
MAT	148/151*	Calculus II ^^^^
MAT	149/152*	Calculus III ^^^^

**Health Sciences Public Health Sciences**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MCD		Math and Computing Domain Requirement^

**Nursing (BS)  
RN to MS in Nursing (MS)**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
		Nursing Analysis Course

**COLLEGE OF LIBERAL ARTS & SOCIAL SCIENCES**

**Economics Majors**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	137	Business Statistics

**Art, Media, and Design (BFA)**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning

**All Other Liberal Arts & Social Science Majors**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**Sociology (All Majors)**

MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**Criminology (BA)**

MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**SCHOOL OF MUSIC**

**Performing Arts Management Majors\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning

**Sound Recording Technology**

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry
MAT	150/151/152^^	Calculus

**Composition Majors**

**Jazz Studies Majors**

**Music Majors**

**Music Education Majors**

**Music Performance Majors**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

**THEATRE SCHOOL**

**Theatre Management Majors\*\***

MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning

**All Other Theatre Majors**

MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning

\* MAT 147, 148 & 149 can substitute for MAT 131, 150/151/152. Students who take 147, 148, & 149 are not required to take 131 before 147.  
 \*\* Additional advanced math courses required for this major; please discuss with your academic advisor.  
 ^ Additional Math and Computing Domain requirement(s); please discuss with your advisor upon completion of Quantitative Reasoning (LSP 120).  
 ^^ Sound Recording Technology majors, please select one of the following: MAT 150, MAT 151, or MAT 152.  
 ^^^ Students may take Summer Calculus Math sequence (155/156) in place of the Calculus sequences above.