UNDERGRADUATE PATHS TO MATH 2023-2024

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 DePaul 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.

JARVIS COLLEGE OF COMPUTING & DIGITAL MEDIA

Math & Computer Science Majors**

MAT	094	Basic Algebra
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	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II
MAT	149/152/162*	Calculus III

Cyber-Physical Systems Engineering

MAT	094	Basic Algebra
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

Information Systems Majors
Information Technology (All Majors)
Network Engineering and Security Majors
Game Design Majors
User Experience Design Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
IT	223	Data Analysis

Industrial Design (BFA)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry
MAT	120	Quantitative Reasoning

Computer Science + Geography
Computer Science + Animation (All Majors)
Computer Science Software Development Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II
IT	223	Data Analysis

Game Programming Majors
Cybersecurity Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	140	Discrete Mathematics I

Computer Science Game Systems Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II

Animation (BA Majors)
Film and Television (BA Majors)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Data Science (BS)**

MAT	094	Basic Algebra
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 (BFA majors)
Graphic Design (BFA majors)
Film and Television (BFA majors)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning

COLLEGE OF COMMUNICATION

All Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

DRIEHAUS COLLEGE OF BUSINESS

All Majors^^^

MAT	094	Basic Algebra
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

Actuarial Science (BSB)**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II
MAT	149/152/162/172*	Calculus III

Economic Data Analytics (BSB)**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry
MAT	135/150/160/170	Calculus I

Secondary Education Environmental Science Majors

MAT	094	Basic Algebra
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	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Elementary Education Majors

MAT	094	Basic Algebra
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	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II
MAT	149/152/162/172*	Calculus III

Exercise Science Majors

MAT	094	Basic Algebra
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	094	Basic Algebra
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	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II

Secondary Education Mathematics Majors**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	150/160	Calculus I
MAT	151/161	Calculus II
MAT	152/162	Calculus III

Secondary Education Social Science Majors

MAT	094	Basic Algebra
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	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry
MAT	160	Calculus I
MAT	161	Calculus II
MAT	162	Calculus III

Actuarial Science BS**

MAT	094	Basic Algebra
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

Biochemistry (All Majors)
Chemistry BA & BS (All Majors)
Mathematics BA & BS (All Majors)
Environmental Science Majors (BS)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II
MAT	149/152/162/172*	Calculus III

Students who take MAT 147, 148, & 149 are not required to take MAT 131 before starting 147.
Students may take Summer Calculus Math sequence (155/156) in place of the Calculus sequences above.

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

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models

Nursing Analysis Course

Data Science BA**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
IT	223	Data Analysis
MAT	140	Discrete Mathematics I
MAT	150	Calculus I
MAT	151	Calculus II
MAT	152	Calculus III

Biological Sciences (BS)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II
MAT	149	Calculus with Integrated Pre-Calculus III

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

Biological Sciences (BA)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Psychology Bachelor of Arts
MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Psychology Bachelor of Arts (Industrial-Org Psychology)
MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Psychology Bachelor of Science (Healthcare)**
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Math and Computer Science Majors **
MAT	094	Basic Algebra
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	147/150/160/170*	Calculus I
MAT	148/151/161/171*	Calculus II
MAT	149/152/162/172*	Calculus III

Students who take MAT 147, 148, & 149 are not required to take MAT 131.
Students may take Summer Calculus Math sequence (155/156) in place of the Calculus above.
Students may take MAT 215 in place of MAT 140 and MAT 141

Psychology Bachelor of Science (General and Neuroscience)**
MAT	094	Basic Algebra
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	094	Basic Algebra
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 (General Track and Medical Track)**
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)

Neuroscience (Computational Neuroscience Concentration)**
MAT	094	Basic Algebra
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

Health Sciences Bioscience General (Pre-Nursing Track)**
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry (only if taking Physics)

Physics and Astrophysics (All Majors)
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131*	Precalculus and Trigonometry
MAT	147/150/170*	Calculus I
MAT	148/151/171*	Calculus II
MAT	149/152/172*	Calculus III
MAT	260	Multivariable Calculus I

Students who take MAT 147, 148, & 149 are not required to take MAT 131 before starting 147.
Students may take Summer Calculus Math sequence (155/156) in place of the Calculus seq. above.

Health Sciences Public Health Sciences
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Environmental Studies Majors (BA)
MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

COLLEGE OF LIBERAL ARTS & SOCIAL SCIENCES

Economics Majors
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	137	Business Statistics

Sociology (All Majors)
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Art, Media, and Design (BFA)
MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning

Criminology (BA)
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

All Other Liberal Arts & Social Science Majors
MAT	094	Basic 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	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning
MAT	242	Elements of Statistics

Composition Majors
Jazz Studies Majors
Music Majors
Music Education Majors
Music Performance Majors
MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning
MCD		Math and Computing Domain Requirement^

Sound Recording Technology
MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	131	Precalculus and Trigonometry
MAT	150/151/152^^	Calculus

THEATRE SCHOOL

Theatre Management Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Functions and Mathematical Models
MAT	120	Quantitative Reasoning
MAT	242	Elements of Statistics

All Other Theatre Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
MAT	120	Quantitative Reasoning

*   **MAT 147, 148 & 149 can substitute for MAT 131, 150/160/170, 151/161/171 & 152/162/172.**

**   **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).**

^^   **Sound Recording Technology majors, please select one of the following: MAT 150, MAT 151, or MAT 152.**