

UNDERGRADUATE PATHS TO MATH 2020-2021

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 process. It is important to note that all students at DePaul take math classes. The number and type of math courses required depend upon the student's major.

This "Paths to Math" sheet will show you where certain courses come in the **full math sequence required for your major**. Please understand that this is an overview only and specific course titles may be subject to change. As students progress through their courses, it is important they consult their academic advisor before making specific enrollment decisions. Advanced math courses are determined through consultation with an advisor.

Last Revised: 4.16.2020

COLLEGE OF COMPUTING & DIGITAL MEDIA

Math & Computer Science Majors**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II
MAT	150/160/170*	Calculus I
MAT	151/161/171*	Calculus II
MAT	152/162/172*	Calculus III

Information Systems Majors

Information Technology (All Majors)

User Experience Design Majors

Game Design Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
IT	223	Data Analysis

Computer Science Software Development Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II
IT	223	Data Analysis

Computer Science Game Systems Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II

Data Science (BS)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	140	Discrete Mathematics I
IT	223	Data Analysis
MAT	150	Calculus I
MAT	151	Calculus II
MAT	152	Calculus III

Network Engineering and Security Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
IT	223	Data Analysis

Game Programming Majors

Cybersecurity Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	140	Discrete Mathematics I

Animation (BA Majors)

Film and Television (BA Majors)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

Animation (BFA majors)

Graphic Design (BFA majors)

Film and Television (BFA majors)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I

Cyber-Physical Systems Engineering

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II
MAT	150	Calculus I
MAT	151	Calculus II
MAT	152	Calculus III

COLLEGE OF COMMUNICATION - All Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

DRIEHAUS COLLEGE OF BUSINESS

All Majors (Except Actuarial Science BSB)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	137	Business Statistics

Actuarial Science (BSB)**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	147/150/160/170'	Calculus I
MAT	148/151/161/171'	Calculus II
MAT	149/152/162/172'	Calculus III
MAT	260	Multivariable Calculus I
MAT	262	Linear Algebra
MAT	351	Probability and Statistics I
MAT	352	Probability and Statistics II
MAT	353	Probability and Statistics III
MAT	361	Theory of Interest
MAT	368	Mathematics for Finance
MAT	341	Statistical Methods Using SAS

COLLEGE OF EDUCATION

Secondary Education Environmental Science Majors

Exercise Science Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
MAT	130	PreCalculus
MAT	131*	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
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

Elementary Education Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
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	PreCalculus
MAT	131*	Trigonometry
MAT	147/150/160/170	Calculus I
MAT	148/151/161/171	Calculus II
MAT	149/152/162/172	Calculus III

Secondary Education Biology Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	150/160/170*	Calculus I
MAT	151/161/171*	Calculus II
MAT	152/162/172*	Calculus III

Secondary Education Mathematics Majors**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	150/160/170*	Calculus I
MAT	151/161/171*	Calculus II
MAT	152/162/172*	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****	PreCalculus
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

**** = 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	PreCalculus
MAT	131	Trigonometry
MAT	160	Calculus I
MAT	161	Calculus II
MAT	162	Calculus III

COLLEGE OF SCIENCE & HEALTH

Actuarial Science BS**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	150	Calculus I
MAT	151	Calculus II
MAT	152	Calculus III
MAT	260	Multivariable Calculus I

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	PreCalculus
MAT	131*	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.

Psychology Bachelor of Arts

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
PSY	240	Statistics I

Data Science BA

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
IT	223	Data Analysis
MAT	140	Discrete Mathematics I
MAT	150	Calculus I
MAT	151	Calculus II
MAT	152	Calculus III
MAT	220	Applied Linear Algebra
MAT	260	Multivariable Calculus I
MAT	349	Applied Probability
MAT	350	Bayesian Statistics
MAT	360	Generalized Linear Models
MAT	364	Mathematical Modeling

Biological Sciences (All Majors)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	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.

Environmental Studies Majors (BA)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

Psychology Bachelor of Arts (Industrial-Org Psychology)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
PSY	240	Statistics I
PSY	340 or 343	Statistics II or Introduction to Psychological Measurement

Psychology Bachelor of Science (Healthcare)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131	Trigonometry (if taking Physics)
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
PSY	240	Statistics I

Psychology Bachelor of Science (General and Neuroscience)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
PSY	240	Statistics I

Neuroscience

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131	Trigonometry (only if taking Physics)
Statistics		

Neuroscience (Computational Neuroscience Concentration)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131	Trigonometry (only if taking Physics)
MAT	150	Calculus I
Statistics		

Physics and Astrophysics (All Majors)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	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 sequences above .

Math and Computer Science Majors **

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	140	Discrete Mathematics I
MAT	141	Discrete Mathematics II
MAT	147/150/160/170 ^o	Calculus I
MAT	148/151/161/171 ¹	Calculus II
MAT	149/152/162/172 ^o	Calculus III
MAT	260	Multivariable Calculus I
MAT	262	Linear Algebra

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 sequences above.

Health Sciences Bioscience General (General Track and Medical Track)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131	Trigonometry (Only if taking Physics)
Statistics		

Health Sciences Bioscience General (Pre-Nursing Track)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131	Trigonometry (Only if taking Physics)
MAT	150 [^]	Calculus I
MAT	151 [^]	Calculus II
MAT	152 [^]	Calculus III
Statistics		

Health Sciences Public Health Sciences

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	Pre-Calculus
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
Statistics		

COLLEGE OF LIBERAL ARTS & SOCIAL SCIENCES**Economics Majors**

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130 ^{^^}	PreCalculus
MAT	137	Business Statistics

Public Policy Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
Statistics		

Art, Media, and Design (BFA)

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I

All Other Liberal Arts & Social Science Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

International Studies Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II

Sociology (All Majors)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
SOC	279	Introductory Stats for Social Sciences

The statistics requirement may also be fulfilled by PSY 240, MAT 137, or MAT 242.

Criminology (BA)

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I
LSP	121	Quantitative Reasoning & Technological Literacy II
CRIM	302	Statistics in Criminology

SCHOOL OF MUSIC

Composition Majors

Jazz Studies Majors

Music Majors

Music Education Majors

Music Performance Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I

Sound Recording Technology

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
MAT	131*	Trigonometry
MAT	150/151/152	

Performing Arts Management Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
LSP	120	Quantitative Reasoning & Technological Literacy I
MAT	242	Elements of Statistics

THEATRE SCHOOL

Theatre Management Majors

MAT	094	Basic Algebra
MAT	095	Introductory Algebra
MAT	101	Intermediate Algebra
MAT	130	PreCalculus
LSP	120	Quantitative Reasoning & Technological Literacy I
MAT	242	Elements of Statistics

All Other Theatre Majors

MAT	094	Basic Algebra
MAT	100	Introduction to Quantitative Reasoning
LSP	120	Quantitative Reasoning & Technological Literacy I

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

** Additional math courses required for this major.

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

^ MAT 150/151/152 in the Pre-Nursing Track for Health Sciences Bioscience General are not required, but an option for the major.

^^ MAT 130 will be the prerequisite for ECO 305 beginning Winter 2021. Please consult with your advisor if you have any questions.