RIT Majors and 1-st Semester/1-st Year Required Math Classes

College and Department	1-st semester/1-st year math courses	Diagnostic Code (use one of three distinct codes depending on YOUR specific major)	MPE 1 Code (use one of three distinct codes depending on YOUR specific major)	MPE 2 Code (for second attempt only)
THOMAS GOLISANO COLLEGE OF COMPUTING AND INFORMATION SCIENCES (GCCIS)				
Computing Exploration	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Computer Science	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Computing and Information Technologies	MATH-131 Discrete Mathematics and MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Game Design and Development	MATH-131 Discrete Mathematics and MATH-185 Mathematics of Graphical Simulation I	FZEM	G4JQ	KQYA
New Media Interactive Development	MATH-131 Discrete Mathematics and MATH-185 Mathematics of Graphical Simulation I	FZEM	G4JQ	KQYA
Cybersecurity	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Human-Centered Computing	STAT-145 Introduction to Statistics I	3JM4	FSEJ	V4AX
Software Engineering	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Web and Mobile Computing	MATH-131 Discrete Mathematics and MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
COLLEGE OF ENGINEERING TECHNOLOGY (CET)				
Engineering Technology Exploration	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Computer Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Electrical Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Civil Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Mechanical Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Mechatronics Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA

Robotics and Manufacturing Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Packaging Science	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	FZEM	G4JQ	KQYA
Environmental Sustainability Health & Safety	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Print and Graphic Media Technology	MATH-101 College Algebra	3JM4	FSEJ	V4AX

COLLEGE OF ARTS AND DESIGN (CAD)

Motion Picture Science	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Photographic Sciences	Choose one of the following sequences: MATH-181 Calculus I and MATH-182 Calculus II or MATH-171 Calculus A and MATH-172 Calculus B or STAT-145 Introduction to Statistics I and STAT-146 Introduction to Statistics II	6SCQ	FE3S	EENQ
Photographic Arts and Sciences Exploration	Based on a later declared major (only students planing to declare above majors need to take the MPE)	6SCQ	FE3S	EENQ
All Other Majors:	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Photographic and Imaging Arts (All Options)	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Film and Animation (All Options)	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Studio Arts (All Options)	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
3D Design (All Options)	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Graphic Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Illustration	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
New Media Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Medical Illustration	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Industrial Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required
Interior Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required	No MPE required

COLLEGE OF LIBERAL ARTS (COLA)

Liberal arts exploration	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Advertising & Public Relations	Math 101 College Algebra and STAT-145 Introduction to Statistics I	3JM4	FSEJ	V4AX
Applied Modern Language and Culture (All Options)	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Communication	Math 101 College Algebra and STAT-145 Introduction to Statistics I	3JM4	FSEJ	V4AX
Criminal Justice	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Economics	MATH-171 Calculus A	FZEM	G4JQ	KQYA
English	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
History	STAT-145 Introduction to Statistics I (as required first General Elective Mathematical Perspective A) and another math course for two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Humanities, Computing, and Design	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
International and Global Studies	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Journalism	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Museum Studies	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Neuroscience	MATH-161 Applied Calculus (Students may take a higher course if applicable)	3JM4	FSEJ	V4AX
Philosophy	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Political Science	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Psychology	STAT-145 Introduction to Statistics I	3JM4	FSEJ	V4AX
Sociology and Anthropology	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX
Women's, Gender, and Sexuality Studies	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX

COLLEGE OF SCIENCE (COS)

Applied Mathematics	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Applied Statistics and Data Analytics	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Computational Mathematics	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Bioinformatics and Computational Biology	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Chemistry	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Biochemistry	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	6SCQ	FE3S	EENQ
Imaging Science	Math 171 required, Math 181 preferred	6SCQ	FE3S	EENQ
Physics	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Biology	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Biotechnology & Molecular Bioscience	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Environmental Science	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Neuroscience	MATH-161 Applied Calculus (Students may take a higher course if applicable)	3JM4	FSEJ	V4AX
SAUNDERS COLLEGE OF BUSINESS				
Business Exploration	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Accounting	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Finance	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Global Business Management	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Hospitality and Tourism Management	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Management Information Systems	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Marketing	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Supply Chain Management	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
KATE GLEASON COLLEGE OF ENGINEERING				
Engineering Exploration	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Biomedical Engineering	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Chemical Engineering	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Computer Engineering	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Electrical Engineering (All Options)	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Industrial Engineering	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Mechanical Engineering (All Options)	MATH-181 Calculus I	6SCQ	FE3S	EENQ
Microelectronic Engineering	MATH-181 Calculus I	6SCQ	FE3S	EENQ

COLLEGE OF HEALTH SCIENCES AND TECHNOLOGY

Biomedical Sciences	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Diagnostic Medical Sonography	MATH-101 College Algebra and STAT-145 Introduction to Statistics I	3JM4	FSEJ	V4AX
Exercise Science	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX
Nutritional Sciences	Math 101 College Algebra	3JM4	FSEJ	V4AX
Global Public Health	STAT-145 Introduction to Statistics I and STAT 146 Introduction to Statistics II	3JM4	FSEJ	V4AX
Physician Assistant	MATH-161 Applied Calculus	3JM4	FSEJ	V4AX

NATIONAL TECHNICAL INSTITUTE FOR THE DEAF (NTID)

ASL and Interpreter Education	MATH-101 College Algebra and Math 104 Contemporary Mathematics (as General Elective Mathematical Perspective A and B)	3JM4	FSEJ	V4AX
Community Development and Inclusive Leadership	STAT-145 Introduction to Statistics I or NMTH-250 Elementary Statistics	3JM4	FSEJ	V4AX
AOS and AAS degrees may require NTID specific math courses		No RIT MPE required	No RIT MPE required	No RIT MPE required

SCHOOL OF INDIVIDUAL STUDY

BS, Individualized Program	Two General Education mathematical perspective courses (6 crd hours total)	3JM4	FSEJ	V4AX