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

College and Department	1-st semester/1-st year math courses	MPE Code (use one of two distinct codes depending on YOUR specific major)	MPE Prep - practice for MPE (use one of two distinct codes depending on YOUR specific major)
		Availability: June 1 – June 30	May 15 – June 30
THOMAS GOLISANO COLLEGE OF COMPUTING AND INFORMATION SCIENCES (GCCIS)			
Computing Exploration	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Computer Science	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Computing and Information Technologies	MATH-131 Discrete Mathematics and MATH-161 Applied Calculus	D2Y9	NJA2
Game Design and Development	MATH-131 Discrete Mathematics and MATH-185 Mathematics of Graphical Simulation I	VVRN	23TX
New Media Interactive Development	MATH-131 Discrete Mathematics and MATH-185 Mathematics of Graphical Simulation I	VVRN	23TX
Cybersecurity	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Human-Centered Computing	STAT-145 Introduction to Statistics I	D2Y9	NJA2
Software Engineering	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Web and Mobile Computing	MATH-131 Discrete Mathematics and MATH-161 Applied Calculus	D2Y9	NJA2
COLLEGE OF ENGINEERING TECHNOLOGY (CET)			
Engineering Technology Exploration	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Computer Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Electrical Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Civil Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Mechanical Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Mechatronics Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX

Major	Requirement	Code 1	Code 2
Robotics and Manufacturing Engineering Technology	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Packaging Science	required: MATH-171 Calculus A (or per student request MATH-181 Calculus I)	VVRN	23TX
Environmental Sustainability Health & Safety	MATH-161 Applied Calculus	D2Y9	NJA2
Print and Graphic Media Technology	MATH-101 College Algebra	D2Y9	NJA2
COLLEGE OF ARTS AND DESIGN (CAD)			
Motion Picture Science	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
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	VVRN	23TX
Photographic Arts and Sciences Exploration	Based on a later declared major (only students planing to declare above majors need to take the MPE)	VVRN	23TX
All Other Majors:	One General Education mathematical perspective course (3 crd hours total)	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
Film and Animation (All Options)	One General Education mathematical perspective course (3 crd hours total)	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
3D Design (All Options)	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required
Graphic Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required
Illustration	One General Education mathematical perspective course (3 crd hours total)	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
Medical Illustration	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required
Industrial Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required
Interior Design	One General Education mathematical perspective course (3 crd hours total)	No MPE required	No MPE required

COLLEGE OF LIBERAL ARTS (COLA)

Liberal arts exploration	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Advertising & Public Relations	Math 101 College Algebra and STAT-145 Introduction to Statistics I	D2Y9	NJA2
Applied Modern Language and Culture (All Options)	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Communication	Math 101 College Algebra and STAT-145 Introduction to Statistics I	D2Y9	NJA2
Criminal Justice	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Economics	MATH-171 Calculus A	VVRN	23TX
English	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
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)	D2Y9	NJA2
Humanities, Computing, and Design	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
International and Global Studies	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Journalism	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Museum Studies	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Neuroscience	MATH-161 Applied Calculus (Students may take a higher course if applicable)	D2Y9	NJA2
Philosophy	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Political Science	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Psychology	STAT-145 Introduction to Statistics I	D2Y9	NJA2
Sociology and Anthropology	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2
Women's, Gender, and Sexuality Studies	Two General Education mathematical perspective courses (6 crd hours total)	D2Y9	NJA2

COLLEGE OF SCIENCE (COS)

Applied Mathematics	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Applied Statistics and Data Analytics	MATH-181 Calculus I	VVRN	23TX
Computational Mathematics	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Bioinformatics and Computational Biology	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Chemistry	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Biochemistry	required: MATH-181 Calculus I, (or accepted alternative: MATH-171 Calculus A)	VVRN	23TX
Imaging Science	Math 171 required, Math 181 preferred	VVRN	23TX
Physics	MATH-181 Calculus I	VVRN	23TX
Biology	MATH-161 Applied Calculus	D2Y9	NJA2
Biotechnology & Molecular Bioscience	MATH-161 Applied Calculus	D2Y9	NJA2
Environmental Science	MATH-161 Applied Calculus	D2Y9	NJA2
Neuroscience	MATH-161 Applied Calculus (Students may take a higher course if applicable)	D2Y9	NJA2
SAUNDERS COLLEGE OF BUSINESS			
Business Exploration	required: MATH-161 Applied Calculus	D2Y9	NJA2
Accounting	required: MATH-161 Applied Calculus	D2Y9	NJA2
Finance	required: MATH-161 Applied Calculus	D2Y9	NJA2
Global Business Management	required: MATH-161 Applied Calculus	D2Y9	NJA2
Hospitality and Tourism Management	required: MATH-161 Applied Calculus	D2Y9	NJA2
Management Information Systems	required: MATH-161 Applied Calculus	D2Y9	NJA2
Marketing	required: MATH-161 Applied Calculus	D2Y9	NJA2
Supply Chain Management	required: MATH-161 Applied Calculus	D2Y9	NJA2
KATE GLEASON COLLEGE OF ENGINEERING			
Engineering Exploration	MATH-181 Calculus I	VVRN	23TX
Biomedical Engineering	MATH-181 Calculus I	VVRN	23TX
Chemical Engineering	MATH-181 Calculus I	VVRN	23TX
Computer Engineering	MATH-181 Calculus I	VVRN	23TX
Electrical Engineering (All Options)	MATH-181 Calculus I	VVRN	23TX
Industrial Engineering	MATH-181 Calculus I	VVRN	23TX
Mechanical Engineering (All Options)	MATH-181 Calculus I	VVRN	23TX
Microelectronic Engineering	MATH-181 Calculus I	VVRN	23TX

COLLEGE OF HEALTH SCIENCES AND TECHNOLOGY			
Biomedical Sciences	MATH-161 Applied Calculus	D2Y9	NJA2
Diagnostic Medical Sonography	MATH-101 College Algebra and STAT-145 Introduction to Statistics I	D2Y9	NJA2
Exercise Science	MATH-161 Applied Calculus	D2Y9	NJA2
Nutritional Sciences	Math 101 College Algebra	D2Y9	NJA2
Global Public Health	STAT-145 Introduction to Statistics I and STAT 146 Introduction to Statistics II	D2Y9	NJA2
Physician Assistant	MATH-161 Applied Calculus	D2Y9	NJA2
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)	D2Y9	NJA2
Community Development and Inclusive Leadership	STAT-145 Introduction to Statistics I or NMTH-250 Elementary Statistics	D2Y9	NJA2
AOS and AAS degrees may require NTID specific math courses		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)	D2Y9	NJA2