Explore, investigate and sample academic programs and career paths this summer at RIT!

The 29th Annual College & Careers program at RIT is an amazing opportunity for you to explore career options through interactive academic sessions. These sessions include personal hands-on experience, demonstrations and discussions. Working with our renowned faculty and students, you will discover and utilize the state-of-the-art facilities and technology available at RIT.

This two day career conference is designed to help students, who will be entering their senior year in the fall, gain the experience and knowledge necessary to start making career decisions about their future.

In addition, College & Careers is a great way to experience life as an RIT college student. You will get to sleep in our residence halls, eat in our student cafeteria and participate in Friday night social activities with other college-bound seniors.

College & Careers also includes a separate (but optional) program for your parents, which will provide them with information about the college search process, financial aid and more.

Regardless of your background or academic interest you will find College & Careers to be a rewarding and fun way to explore your future.

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COLLEGE & CAREERS STUDENT SCHEDULE*

Friday:
12:00-3:00 p.m.  Campus Tours
1:30-3:30 p.m.  Check-In
1:30-3:30 p.m.  Room-With-a-View (decorated Residence Hall rooms for viewing)
3:45-5:00 p.m.  Welcome and College & Careers Introduction
5:00-6:30 p.m.  Dinner
6:30-7:15 p.m.  Admissions Presentation (optional)
7:15-8:30 p.m.  RIT Student Panel & Entertainment Kick-Off
8:30-11:00 p.m. Social Activities and Free Time

Saturday:
7:00-8:30 a.m.  Breakfast
9:00-10:00 a.m. Academic Session I
10:15-11:15 a.m. Academic Session II
11:15-12:15 p.m. Lunch
12:30-1:30 p.m.  Academic Session III
1:45-2:45 p.m.  Academic Session IV
3:00-4:00 p.m.  Check-Out

COLLEGE & CAREERS PARENT SCHEDULE*

We invite the parents to join us for a program that is both social and informational. All events are optional, so join us for any or all that interest you!

Friday:
12:00-3:00 p.m.  Campus Tours
1:30-3:30 p.m.  Check-In
1:30-3:30 p.m.  Room-With-a-View (decorated Residence Hall rooms for viewing)
3:45-4:45 p.m.  Academic Session Pt 1 (College reps provide overview of majors & more)
5:00-6:00 p.m.  Academic Session Pt 2 (College reps provide overview of majors & more)
6:00-7:30 p.m.  Parent Reception

Saturday:
8:00-9:45 a.m.  Continental Breakfast
8:30-9:30 a.m.  Academic Session Pt 3 (College reps provide overview of majors & more)
8:30-2:00 p.m.  Campus Tours
9:45-10:45 a.m. College Prep 101: A Guide for Parents
11:00-12:00 p.m. Financial Aid Presentation
12:00-1:30 p.m.  Lunch (pre-purchased at $10.00 per person)
12:00-3:00 p.m.  Room-With-a-View (decorated Residence Hall rooms for viewing)
1:30-2:15 p.m.  RIT Student Panel
2:15-2:45 p.m.  Career Trends & Opportunities for the 21st Century
3:00-4:00 p.m.  Check-Out

* tentative schedules
SESSION DESCRIPTIONS:

You will have the opportunity to attend up to four sessions from the following list. Since space is limited in a number of the sessions, you should list your **first six choices, in order of preference**, on the Registration Form. Some sessions will run for two consecutive time slots. These are noted with: *Double Session. Some sessions will be held either in July or August only: noted with two asterisks (**) at the end of the description. All sessions are designed for students with no prior knowledge of the career area. Try something new!

**ART & DESIGN** (Also see workshops 21, 26, 28, 51)

#1 3D Digital Design  
Use 3D software and build objects for a scene, add color and textures, place lights, adjust the camera, and render a picture that you can then email to yourself. The 3D software that you will use is the same software used in computer and video games, and in the movies. Students will get a glimpse of how 3D Digital Design and traditional design skills are integrated into working with this technology.

#2 Experiencing Glass  
Come into our state of the art glass studio to have a first-hand experience with glass as a creative material and produce your own piece. Be introduced to many exciting career possibilities in the glass field such as a studio artist, contemporary sculptor, product designer, industrial fabricator or educator. Explore your potential! *Double Session

#3 Furniture Design  
Explore the spectrum of woodworking possibilities, from studio furniture making to production work, from design for industry to art furniture. Learn about the qualities of wood by designing and working on a small piece using the band saw and an assortment of hand tools. *Double Session

#4 Illustration  
Illustrators have captured our imagination for centuries. From childhood picture books to the most sophisticated political cartoons, from technical manuals to animated Disney movies, illustrators bring fresh vision to our world. Explore drawing and painting from the illustrator’s perspective using a variety of techniques to show the world what’s in your imagination. Bring home your finished work! *Double Session

#5 Industrial Design  
Expose yourself to the dynamic area of product design. Learn how three-dimensional design concepts, which incorporate color, shape, form, and human factors, are used to create products such as toys, kiosks, exhibits, shoes, tools, furniture, and other items for consumer use. You will complete a short project. *Double Session

#6 Interior Design  
Interior designers shape our experiences of inhabitable spaces by planning for the physical and psychological needs of people and technically and creatively addressing interior architecture. It is a multifaceted profession with career possibilities in retail, hospitality, healthcare, office design, residential and education to name just a few. Learn about an interior designer's artistic and technical expertise and approach to creating beautiful, functional spaces. Take home a mini interior design project kit to practice what you have learned.

#7 Introduction to Graphic Design  
Graphic designers create visual communication solutions to inform, persuade, and entertain audiences. This session will provide an overview of the graphic design profession and a brief hands-on project. You will develop a visual composition combining typography and imagery that integrates visual principles of design.

#8 Medical Illustration  
Medical illustrators help teach physicians, nurses, physical therapists, and other allied health professionals through their illustrations, animations, and even three-dimensional models. Their work ranges from illustrations of the heart to animations explaining DNA replication. Their subjects include landscapes at the cellular and molecular levels that host every imaginable organism and substance. Complete an animation and take it with you to wow your friends. *Double Session

#9 New Media Design  
New Media Design, is at the intersection of visual communication, design strategy, technology sciences, and
user experience. With new digital devices and emerging technologies stretching the form of communication and interactivity, new media designers are the innovative thinkers, designers, and creators of the next generation of user experiences. Students are well equipped with the aesthetic creativity, technical skills and knowledge to meet the needs for a creative career in visual, interactive consumer electronics, and motion for digital advertising, marketing, mobile, web, application, internet and corporate design industries. This session will show you how to combine your passion for design theory, computer graphics, 3D and programming to become a skilled designer.

#10 Painting
Express yourself through a medium of paint. In this workshop, students will create one-of-a-kind artwork using basic painting techniques with an emphasis on the application of acrylic media. *Double Session

#11 Printmaking
Find another way of expressing yourself beyond painting. This workshop, in the printmaking studio, introduces students to create one-of-a-kind artwork with hand printing method. *Double Session

#12 Sculpture
Create three-dimensional artworks using mold-making and casting methods. Work from your own body to produce a mold then cast plastic to create a brightly-colored finished sculpture. *Double Session

#13 Work with Metals
Through the exploration of various forming processes and fabrication methods for metals and jewelry making, and using a variety of hand tools and techniques, students will work on an actual piece. Develop your creative potential while exploring career options such as studio metal artist, silversmith, goldsmith, jewelry designer, gem setter, sales and marketing specialist, educator and gallery manager! *Double Session

BUSINESS & MANAGEMENT  (Also see workshops 43, 50, 51, 55, 62)

#14 Accounting & Finance: "Show me the money!"
Play Beat the Market, an online game simulating "real world" market conditions. Compete with others in your session and dominate the market to become a business tycoon. This session will also reveal how there is more to fields of Accounting and Finance than you know.

#15 Business Analytics & MIS: Data Discovery and Career Opportunities
What do BMW, San Francisco 49ers, Southwest Airlines, Liberty Mutual Insurance EY, Intuit, and many other employers have in common? They’ve all hired Saunders College of Business Management Information Systems (MIS) students to do business analytics work in the last three years! You will practice working with visual data analytics tools on real business data to gather insights and to make business decisions. Examples of the application of these technologies in the MIS, Marketing and Supply Chain careers will be explored.

#16 Economics: Economics Comes Alive in Your Daily Life
How do consumers and businesses make decisions? What motivates them? How do economic agents respond to different incentives? What are the implications of their behavior for economic outcomes? Answers to these questions have important implications for both business and government policies. See an illustration of how economists address such questions. With the aid of computer simulations you will discuss conditions under which lower quality products survive in the marketplace. **August only

#17 Hospitality Event Management
Designing and executing events is a major part of hospitality management. Students interested in a career in restaurants, full-service hotels, cruise lines, resorts or starting their own event/catering company need to understand the basics of event management. In this session, students will be introduced to event planning and management, and challenged to plan an event. **August only

#18 Management, Leadership, & International Business: Reach for the Sky, Stay There
Near RIT Dubai stands the Burj Khalifa, the world's tallest building. In this fun, fast-paced team activity, you will race against the clock to design and build your own Burj Khalifa. As you learn about teamwork, leadership, and strategy, you will find that reaching the sky might be easy, but staying there is the real challenge.
COMMUNICATIONS & MEDIA  (Also see workshops 7, 9)

#19  Careers in American Sign Language-English Interpretation
What does it take to be an American Sign Language-English Interpreter? What kinds of jobs are available and where are they? It may surprise you to know that ASL-English Interpreters are in short supply in many different settings. From classrooms to courtrooms, qualified interpreters are in great demand. This interactive workshop will introduce you to the things you need to know about becoming an interpreter.

#20  Communication: Interpersonal Communication for Professional Success
Knowledge of interpersonal communication skills is essential for developing and maintaining healthy relationships, personally and professionally. Becoming critically aware of the ways in which you communicate, the underlying theories at play during interactions, and the influence of perceptions can lead one down the path to becoming an effective and competent communicator. This session explores the importance of interpersonal skills and the impact knowledge of these skills can have in your life.

#21  Media Arts: Careers in Media Industries
The production of media, including print, web, mobile, and social is what the School of Media Sciences (SMS) is all about. In this session, students will learn about the careers that the School prepares them for and about the employers that hire our graduates year after year. In addition, attendees will be exposed to a particular aspect of media production through hands-on exercises: brand color management throughout a graphic and electronic workflow. Brand owners desire consistency in their brand color reproduction throughout multiple media channels; this is but one area where SMS students fill needs for marketing and production professionals. Using real-world samples, the exercise is demonstrated to impart an understanding of processes, colorimetry, quality assurance and project management: four domains in the SMS curriculum. *Double session

COMPUTING & INFORMATION SCIENCES
(Also see workshops 1, 9, 15, 21, 32, 33, 34, 35, 36, 42)

#22  Computing & Information Technologies: Making the Internet Happen
Netflix. Snapchat. Facebook. Google. We use these and other applications daily to communicate with friends and family, to buy movie tickets, learn new things, and watch our favorite shows. What we often don’t think about though is the technology that enables these applications to be available and work as well as they do. Consider the number of movies available for on-demand streaming. Where are they stored? How is it organized? And what ensures that it is available to be viewed whenever we want? In this hands-on session, we’ll explore the protocols, methods, and applications used to transmit data across networks.

#23  Computing Security: Malware 101
Has your computer or phone ever been infected by a computer virus also known as malware? Have you seen malware in action on a computer or phone? Ever wonder how a hacker gets access to your devices? In this session, you will have the opportunity to learn more about malware -- how it works, how it gets on to your computer or phone, and how you can defend against it. You will have hands-on experience in detecting, removing, controlling, and analyzing malware. You will learn different types and forms of malware, and best practices on how to keep your phones and computers virus free. **July only

#24  Design Thinking
Design an app from the ground up! In this low-tech look at a high-tech field, you'll explore the five steps human-centered interactive professionals at massive technology companies go through to deliver top-of-the-line applications by creating low-fi prototypes of a mobile application. No previous experience is necessary.

#25  Doing a Little Bit with a Microbit
Do you want to make a scavenger hunt game, hack your headphones, or create a Reaction Time game to compete with your friends? All of this and much more is possible with a $20 computer and some items found around your house. We will be exploring the versatile BBC Microbit device. This device will help you learn how to program using a block based (drag and drop) language and using Web Based tools. This device can be programmed from anywhere and is capable of being limited only by your imagination. *Double Session

#26  New Media Development: Technology Meets Creativity
Do you have a passion for technology, problem-solving and expressing yourself creatively? If so, check out
New Media Interactive Development (NMID). New media is how we interact with the world via technologies like the web, social networks, mobile devices, wearables, and VR headsets. An interactive developer is someone who envisions, designs, and builds rich and immersive experiences for new-media users. As an NMID student, you’ll build skills in programming, User Experience Design, web/mobile/device technologies, and teamwork. You will design and program apps of all kinds: websites, games, simulations, educational tools, AR/VR interfaces, and more. Come see how to combine your passions for tech, problem-solving, and pure creativity to build a career in the exciting and lucrative field of new media interactive development!

#27 Software Engineering: Team-Based Software Development
We are witnessing an explosion in the demand for software—for office productivity, corporate information, and e-commerce systems; for industry, manufacturing, and health care; for home entertainment and personal gadgetry; and for embedded software in everything from antilock braking systems, to wearable computers and smartphones. Software Engineers apply engineering problem-solving techniques to identify user requirements, design solutions, and implement the working systems. You will get a hands-on introduction to the concepts of Software Engineering through a fun activity using Robocode.

#28 Understanding Level Design in Video Games
A video game designer's task is to engage, inform, and entertain a player as they move through a level. This is often done in a way that is seamless and unseen by the player. We will delve into Platformers, Puzzle Games, First person shooters, and RPG Dungeons and learn the techniques used to develop content that fascinates, baffles, thrills, panics, satisfies, and most importantly, drives the player of today's video games.

ENGINEERING & ENGINEERING TECHNOLOGY
(Also see workshops 27, 44, 65, 66)

#29 Biomedical Engineering: Engineering Solutions for the Human System
Biomedical engineers are intimately involved in the development of systems, devices, and techniques to address health issues. They are important contributors to multidisciplinary teams that develop new products and services in support of healthcare to restore, sustain, and enhance the health and well-being of individuals. You will see the impact of technology on the medical practice and learn about the kinds of jobs biomedical engineers do in their chosen profession.

#30 Chemical Engineering: The Engine of Industrial Society
Chemical engineers have become extremely versatile in their impact on different markets in today's society. Using their knowledge of scientific principles (physical and organic chemistry integrated with physics, mathematics, and biology) and design constraints (such as economics and environmental requirements), chemical engineers develop processes to manufacture products with desired purity, on a scale that meets the demands of virtually every industry in our modern society. Chemical engineers also use their knowledge of chemical transformation to create such materials in an environmentally friendly way. You will learn how the fields of chemical engineering and chemistry differ, and how chemical engineers often focus their training on problems beyond the discipline’s traditional chemical-making focus.

#31 Civil Engineering Technology: Making a Difference in Our World
Civil Engineering Technology graduates work on engineering projects that are BIG -- both in scale and importance. They analyze, design, and manage the construction of buildings, bridges, roads, railways, water treatment facilities, wind farms, and much more. They develop our built environment, improving lives everywhere, by designing and implementing sustainable solutions to important engineering problems. Much of what Civil Engineers do is visible, but some of it is not. For example, how does clean water get to your home? What keeps a skyscraper from tipping over? How does a bridge support heavy trucks? Learn about the civil engineering profession by exploring the myriad ways in which civil engineering impacts lives. You will have the opportunity to design your own bridge using West Point Bridge Design software.

#32 Computer Engineering: Intelligent, Resilient, and Sustainable Computing Systems
Computer engineers design and develop integrated software and hardware systems, ranging from smart phones to autonomous robots. Students in RIT's Computer Engineering program tackle real-world challenges through hands-on labs as well as industry-sponsored design competitions. The broad skill set and knowledge from circuits to programming enables our graduates to work in a variety of industries to design intelligent,
resilient, secure, high performance and low power computing systems. Come experience the interface between hardware and software through a set of activities ranging from testing your reaction time to creating your own song on a microcontroller board.

#33 Electrical & Computer Engineering Technology - Alternative Energy
Have you ever wondered how solar panels and wind turbines generate electricity? In this session, students will be challenged to design, build and test a wind turbine that supplies energy to 400 homes at highest efficiency and lowest cost possible. Students will also generate electrical power using a three phase synchronous generator and connect the generated power to the grid.

#34 Electrical & Computer Engineering Technology - Drones: Remote Sensing with Unmanned Aerial Vehicles (UAV)
Learn about the current research being conducted at RIT on drones: the challenges facing the drone industry from integrating UAVs into the national airspace and how to make better use of the high quality visual data collected from UAVs in a variety of disciplines. During this session, you will get hands-on experience flying a drone as well as a show and tell of the latest drones being developed here at RIT.

#35 Electrical & Computer Engineering Technology - Engineer a Future Surround Sound
Experience what it’s like to design and engineering a surround sound using the professional analog and digital audio equipment in our state-of-the-art laboratories. You will have the opportunity to record, render, and reproduce live music in surround as if you are in a movie theater.

#36 Electrical Engineering: Electronics, Computers, Robots
Electrical engineering is a program of many engineering disciplines and the one from which many major innovations of this century have emerged. It involves areas such as integrated circuits, computers, lasers, robotics, semiconductors, bioinstrumentation, communications, and signal/image processing. Get a glimpse of electrical engineering in laboratories where you will view and manipulate images, use fuzzy-logic controllers, learn how to control robots with bio signals, measure electrical signals of the human body, and examine how electronics is applied to solve everyday problems.

#37 Industrial & Systems Engineering: All Systems Go
If you like putting all of the pieces of a puzzle together, industrial and systems engineering might be for you. Industrial engineers integrate materials, equipment, information, and/or people with an eye toward efficiency, quality, safety, sustainability, and cost…they bring all of the pieces of the system together in order to create innovative processes for innovative products. In this lab, you will see how to create products, control and improve system processes, and design real-world assembly and distribution processes.

#38 Mechanical Engineering Technology: Vehicle Design
Designing a car, truck, motorcycle or bicycle isn’t just about how it looks, it’s about how it performs. Experiment with computer simulation tools that help designers develop ideas and create vehicles that perform as well as they look. Experiment with mechanical challenges faced by engineers (like Lamborghini doors that open upward, suspension systems for improved ride or handling, or custom fitting a bicycle to its user) and think of new ways to enhance a vehicle’s design and performance.

#39 Mechanical Engineering: We Design the Future
Students, faculty, and staff will be here to show you some of the work that they do every day involving alternative fuel vehicles (powered by wind or fuel cells), high-performance vehicles, a new blood pump designed to extend the lives of heart transplant patients, rockets, alternative energy sources, materials testing, the effects of smoking on the lungs, and more. See how Mechanical Engineers at RIT are working to make advances in the field that will reshape the future!

#40 Microelectronic Engineering: Fabrication of Modern Nano-scale Electronics
Design and fabrication of semiconductor devices enables the progress of technology that is essential in modern life. This includes, communications (cell phones), computing, energy (solar cells and LED lighting), health sensing and transportation (self-driving vehicles) to name a few. In this session, students will learn how chemistry, physics, optics and engineering come together in RIT's outstanding clean room laboratory to provide the best learning environment for microelectronics. You will be guided through the key nano-scale
manufacturing process of photolithographic patterning of features on a silicon wafer. Learn about the course-
work, equipment and processes supported by the lab, as well as employment and graduate school opportuni-
ties in this exciting field. *Double Session

#41 Packaging Science: On the Road
Everything is packaged, from toothpaste to computers. Packaged goods surround us in our daily lives, yet we
seldom give packaging materials much thought! See how packages are physically tested on vibration, drop
and compression equipment to simulate truck, rail, and airplane shipment. You can even operate the drop tes-
ter! Step into the environmental chamber that simulates various levels of temperature and relative
humidity. Examine and handle antique and modern packages. See leading-edge packaging production and
testing equipment. Shrink wrap your wallet! Learn secrets of how things you use daily are packaged.

#42 Robotics & Manufacturing Engineering Technology: iRobot to iPhone
Robots are not just some far-off idea reserved for Sci-Fi movies depicting the future. They are very real and
are being used in manufacturing environments right now. Robotic manufacturing makes it possible to build
devices that are too small, too complicated, or too dangerous for human workers. You’ll learn about robotics
and computer-controlled machines, explore the robotics and automation lab, run a variety of industrial robots,
and visit the multi-million-dollar Center for Electronics Manufacturing laboratory. You will operate robotic
equipment that quickly assembles electronic components that are smaller than grains of sand, like those used
in cell phones, computers and more.

ENVIRONMENTAL STUDIES (Also see workshop 30, 33, 41)

#43 Environmental Sustainability Health & Safety: All Dressed Up and Nothing Will Grow
RIT’s Environmental Sustainability Health & Safety major was selected as one of the four best
environmental programs in the nation! This major will prepare you to be a champion of environmental sus-
tainability and health & safety. You’ll learn how we eliminate release of pollutants into the environment and
develop solutions for real life safety problems. Come try on a Level-A Emergency Responder Hazardous
Materials Suit and learn how they protect workers from hazardous chemicals in the workplace, and citizens
from chemical pollutants in the environment.

FILM

#44 The Science and Engineering Behind Moviemaking
Come and learn about how science and engineering combine with imaging technologies used in the motion
picture industry to prepare students for research engineering roles or technical post-production positions like
digital color correction, sound design, and visual effects at technology and entertainment powerhouses like
Netflix, Sony, Technicolor, and Dolby.

ROTC

#45 Air Force ROTC: Air Force Information Session
For over a quarter of a century, we have been preparing the young men and women of RIT to become leaders
in the Air Force, but it’s also much more. You’ll grow mentally and physically as you acquire strong leadership
skills that will benefit you as an Air Force Officer and in life. It’s also a great opportunity to pay for school
through scholarships. You’ll develop lifelong friendships and have unique experiences. Plus unlike many col-
lege students, you’ll have a position waiting for you after graduation at one of the world’s top high-tech orga-
nizations—the U.S. Air Force. Learn all about AFROTC and what it takes to be a fearless, competent leader
and achieve your full potential.

#46 Army ROTC: Tiger Battalion
The Army ROTC program has a long and proud tradition of turning motivated and committed students into
outstanding leaders. The skills you acquire will be an essential component to your successful career. Army
ROTC can help you achieve your goals by preparing you to succeed in any competitive environment. You
may also apply for scholarship benefits including tuition, books, and monthly pay, if eligible. Learn about how Army ROTC will provide you the tools, training, and experience to lead others, motivate groups, and perform missions as a commissioned officer in the United States Army.

SOCIAL SCIENCE & HUMANITIES  (Also see workshop 16, 69)

#47  Applied Modern Languages & Culture: Customs & Phrases for the Global Citizen
When you meet a new client from a foreign country, should you shake hands or bow? When should you give business cards? Or how do you say hi to a friend from a foreign country? We know people communicate differently in different parts of the world, but tend to follow the manner of our own country in real situations. In this session, we will highlight cultural differences between the U.S. and some of the countries in Asia, Latin America, and/or Europe in occasions such as greetings, showing appreciation, and shopping. You will then learn some short, useful phrases that are commonly used in those situations.

#48  Criminal Justice: Warning-This course of study may be addictive.
Criminal Justice could be the most relevant and exciting choice before you. If you join us we guarantee you will be studying justice within a "free" country with the highest incarceration rate, ever-present controversy involving the regulation of guns and the consequences of gun violence, drug enforcement policy and the legalization of marijuana, the motivation behind cheating, fraud, and aggression and other engaging topic areas. Embrace your inner deviant, if you dare, and check us out. Results may vary.

#49  Digital Humanities and Social Sciences: “Man Hit by Train in Quest for Perfect Selfie”
Digital Humanities and Social Sciences (DHSS) is an exciting, interdisciplinary field of study that asks: How are technologies changing what it means to be human today? How can we make use of digital technologies to help us better understand culture? In this workshop, we'll explore selfies as media technologies of self-expression. Like the essay or self-portrait, selfies are both deeply personal and shaped by the culture around us. This workshop asks: why do we take selfies? How do they circulate? Are they new, a trend? What is their history? Have they gone terribly wrong? We will look at exciting digital humanities projects such as SelfieCity and the Selfie Researchers Network while exploring the history of selfies and their roots in Rochester and Kodak. DHSS is a hands-on, project-based major, and workshop participants will take selfies for analysis and curation in an online exhibit that considers what selfies have become today.

#50  International and Global Studies: The Fate of World Peace Hangs in the Balance...
International and Global Studies (INGS) takes a globalized worldview and provides you with tools and skills to understand a world that is rapidly changing around us. We'll run a model UN Security Council and debate one of the most pressing issues of our time. You'll each be provided a country, the professor will provide you with a crash course in the issue at hand, and then we will debate and vote on an emergency resolution. This session will show the importance of knowledge of global issues for navigating problems and finding resolutions. And, it will highlight the skills you learn in the INGS program. As an INGS student, you'll become proficient in a foreign language, choose from fascinating areas of study from many disciplines, study abroad, and develop analytical skills and cultural competencies that will make you eminently employable.

#51  Museum Studies: What Really Happens at Night in the Museum?
While we all know that dinosaurs, mummies, paintings, and statues don’t really come alive at night in the museum, we also know that we’d love to have the experiences that Larry Daley had the next time we visit a museum. What can museum professionals do to make today's museums come alive for their visitors? How can contemporary technology and interactive techniques give museum goers an experience that approximates what we see in the movies? Brainstorm creative options for enlivening museum exhibitions while learning about museum careers. If you enjoy art, science, history, or archaeology and love to visit museums, learn how those interests can be the foundation for a career as a museum professional.

#52  Philosophy: Perhaps You are a Philosopher?
Perhaps you are a philosopher. So, perhaps, is everyone else, at least sometimes and to some extent. What is philosophy? One traditional answer, going back to the origin of the word in ancient Greece, was that philosophy is the love of wisdom. Another, is that philosophy is the attempt to answer apparently important questions that don’t yet have clear-cut answers. What kind of life should you lead? What makes the difference
between things that are ethically okay and things that are wrong? To what extent are the choices we make products of our heredity and our environmental background? If everything we can know about the world relies biologically on our sensory equipment, how can we know about things we can’t sense, like electrons or quarks? And if there are other ways of coming to know things, what are they? Philosophy prepares you to read, write, and think critically. Find out what they do, how they do it, and why they do it.

#53 The Politics of The Walking Dead: Seeking Order in an Apocalyptic World
Come see this multi-media presentation on the politics of The Walking Dead television series. Learn how The Walking Dead reflects our loss of faith in political institutions, our fear of modernity, and our restlessness in a globalized world. Learn how Rick Grimes and his group struggle to form a tight-knit community in the face of ravenous "walkers" and desperate survivors. Can they find an enduring political order in a world that resembles Hobbes' "statue of nature," where the dead and humans fight to survive? Is freedom possible in such a world? And, along the way, learn how RIT's cutting edge political science program prepares students for the challenges of life and a career in a world that is increasingly globalized.

#54 Psychology: Can your favorite cat meme really reveal your personality?
What is personality? Can you figure it out with a Buzzfeed quiz? Where does personality come from and how does it impact what we do? What happens when personality and mental illness collide? These are the kinds of questions asked by psychologists. Come learn about how psychologists examine personality and apply this to everyday life and mental illness. You’ll never look at an online quiz the same way again!

#55 Public Policy: Some People Play by the Rules...Others Change Them!
Do you let others define the rules that you live by or do you want to take an active role in shaping these rules? If it’s the latter, consider a career in public policy. Public policy is about helping society address today’s most pressing social, economic, and environmental problems. Policy analysts have the skills to analyze these problems, advise policy makers on potential solutions, and advocate for specific policy options. In this interactive workshop, we will talk about the major challenges facing society, and the complexities in developing fair, effective and politically feasible policies that can help society overcome these challenges.

#56 Sociology and Anthropology: What is More Important? Health? Happiness? Money?
In this interactive session, you will play an online game in which you have to try to keep a family alive and thriving in a rural Caribbean village. You have to decide what a "good life" means, and come up with the best strategy to achieve that -- working, going to school, eating nutritious meals, or making investments in tools. Watch out for hurricanes! The game mirrors the work that international development workers do. International development is one of a multitude of careers that sociology and anthropology graduates can pursue. Sociologists and anthropologists explore the deepest questions about humanity and our social relationships. We examine all of humanity, from the ancient past to our dynamic and global present, and human societies across the globe, to understand our diversity and also what unites us.

SCIENCE, MATHEMATICS & HEALTH SCIENCES
(Also see workshops 8, 29, 30, 41, 43, 44, 54)

#57 Biology: Pre-Vet/Animal Science
Thinking of a career that involves various biological sciences such as zoology, animal behavior, veterinary medicine, animal science, or other related disciplines? We will explore the use of a biology degree as preparation for various careers while examining animals and discussing their adaptations. **August only

#58 Biomedical Sciences
There are many career opportunities within the biomedical sciences. Consequently, there has never been a better time to start learning about where you fit on this exciting landscape. Interested in a career in the medical field, but not sure which career is for you? Come and learn about traditional careers in medicine by analyzing normal and diseased organs of the body. Explore dentistry through a presentation on early childhood caries and “meth mouth,” and how many current chronic and inflammatory diseases originate from previously unknown oral to systemic mechanisms of disease. Investigate other careers that are possible after successful completion of graduate studies. Come and learn how a degree in biomedical sciences can position you for a wonderful career in medicine.

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#59 Careers in 21st Century Medicine: Science Fiction Becoming Reality
Doctors don't yet have Star Trek Tricorders for diagnosing injuries or disease, but the future of medicine is already beginning to look a lot more like science fiction than ever before. Come learn about heart disease, cancer, emphysema, and other chronic diseases that take millions of human lives each year. Examine actual normal and diseased human organs, then learn about progress in the development of treatments that include nanobots and growing new organs from adult stem cells. Discuss what it takes to become a doctor and how you can begin preparing for an exciting career in medicine.

#60 Chemistry: The Wonders of Chemistry
Chemistry, imagination, and the world around us. Color, mystery, excitement—chemistry! Learn about everyday chemical mysteries. Where does color come from? What is a chemical reaction? How do materials behave under extreme conditions? Chemistry as a career is fun!

#61 Exercise Science and Nutrition: How Fit are You?
Exercise and food go together like health and nutrition. The impact of lifestyle has never been more powerful, and the opportunity to enhance your athletic performance and physical well-being have never been higher. This active session explores the point of convergence between diet and fitness leading to a discussion of career options in which you can help people optimize their personal health. The activities take place in the RIT Fitness Lab.

#62 Mathematical Sciences: Escape the Executioner
A prisoner will be hanged at sunrise. The warden, however, has given the condemned a chance to escape certain death by attaching the rope to the hangman's structure in a very unique way. The rope hangs over two or more pegs and the prisoner can loop it around however they wish. The warden will remove one peg (the prisoner won't know which). Can the prisoner loop the rope around the pegs in such a way that no matter which peg is removed, the rope falls to the ground? If successful, the prisoner survives another day. Can you do it? This is a hands-on mathematical exercise where you will work together in groups to solve multiple scenarios.

#63 Medical Science: Medical Detective - You Make the Call!
You will be involved in an actual clinical scenario, utilizing patient history and physical examination findings, while gaining an introduction to various diagnostic evaluations. By proceeding through this case, you will be guided to uncover the appropriate diagnosis. In this clinical vignette, you will be encouraged to illustrate appropriate risk factors and associated findings contributing to this diagnosis. The patient's prognosis and future preventive strategies for health promotion will be discussed.

#64 Solving Medical Mysteries Through Ultrasound: A College Major and Career with Great Opportunities
The body works in mysterious ways. Have you ever thought about what it would be like to take a glimpse inside? With Ultrasound, we offer a way to see inside the body, to take a look at the way that it works. We see the heart beating; we see the organs; we see and hear the blood moving, and we can even look for things that might be wrong. Join professionals and students who use ultrasound machines to see inside and better understand the human body. It is real...It is interactive...It is a college major...It is a career with great opportunities and a good salary...It is Ultrasound. See you there.

#65 Physics: Particle Physics in the News-Higgs, Neutrinos, and You
What is it about particle physics that makes it newsworthy? Is it your tax dollars going towards giant machines that probe the mysteries of the universe? Does the Higgs boson endow you with your mass every time you step on the bathroom scale? Do neutrinos really travel faster than light? Come see a working detector that shows you some of the particles that are streaming through your body every second, and find out what all the fuss is about! **July only**

#66 Physics: Solar Energy and Nanomaterials
We will explore some basic topics involving solar energy and solar cells. This includes demonstration of the operation of solar to electric energy conversion, storage concepts using hydrogen electrolysis and batteries, and ultra-high efficiency solar cell concepts. A variety of solar cell materials and designs will be demonstrated from standard roof mounted systems to high intensity concentration concepts. We will also explore examples of how nanomaterials are currently being used to enhance the efficiency of energy conversion, storage and transmission. **July only**
Bayes’ Theorem plays a major role in modern mathematical and statistical analysis. It essentially tells us about how to modify our initial beliefs about some issue after having received new information. In this session, we will apply this important theorem in the study of space probes, terrorism, and testing for rare diseases.

**UNDECIDED OPTIONS & INDIVIDUALIZED STUDY**

**#68 University Exploration: What’s your major?**
Only about 10% of students can answer this question with confidence! With over 100 major options at RIT, there is a lot to decipher on the differences between each major. This interactive session will go beyond the name of the major and provide tips and tricks on how to research and understand the differences. Take the time to learn what is right for you. If you decide you need more time to explore and figure that out at RIT, learn how we can help you find your path in University Exploration, RIT’s undeclared option.

**#69 Liberal Arts Exploration: A Major Decision**
An estimated 75 percent of students in the United States change their college major at least once before graduation—so you’re smart for exploring all the possibilities now! This session offers the opportunity to explore your personality type and the factors that influence career choice. It will also introduce you to the process by which you may, without delaying graduation, take up to two years in the Liberal Arts Exploration program to choose a major in the College of Liberal Arts.

**#70 School of Individualized Study: Integrating Passion, Purpose, and Learning**
Meet RIT’s School of Individualized Study—a place where students design their own major curriculum and integrate their passions and purpose towards a meaningful profession. In this session, students will learn how the individualized curriculum model works and engage in "designing" their degree by researching areas of interest, exploring the intersection of multiple disciplines, and discovering the value of integrating experiential learning into a degree.

**PROGRAM INFORMATION:**

**LOCATION:**
Public bus and train lines serve Rochester. The campus is located five miles from the Greater Rochester International Airport and five miles from the New York State Thruway (Interstate 90), Exit 46. Directional information can be found at: [http://www.rit.edu/maps/](http://www.rit.edu/maps/)

Check-In/Check-Out: Both Friday Check-In and Saturday Check-Out locations will be held in the Gordon Field House (GOR). When you arrive on campus, please follow signs for College & Careers parking in Lot D. Shuttles will be available to transport families from the Gordon Field House to the student’s residence hall.

**COMINUER OR SATURDAY-ONLY PARTICIPANTS:**
Although we recommend that you stay overnight for the full College & Careers experience, here are some suggestions regarding the program’s schedule if you do not plan to spend the night on campus. **Friday Night:** We encourage you to attend the evening’s social activities and free time. If your parents are picking you up at the end of the evening, be sure to arrange a meeting time and location. **Saturday:** Check-In for Saturday participants will take place in the Gordon Field House starting at 8:00 a.m. Parking will be available in Lot D. At the end of the day, please plan to Check-Out and be picked up (if necessary) from the Gordon Field House. Parking for Check-Out will also be available in Lot D.

**FAMILY ACCOMMODATIONS:**
On campus housing is not available for family members. Family members may be interested in staying in an area hotel. A list of local hotels are provided with the registration confirmation and can be found on our web site: [www.admissions.rit.edu](http://www.admissions.rit.edu). At registration, we will collect a phone number we can use during the program to contact the parent(s) in case of an emergency. If no phone number is provided we will assume the phone number provided on the registration form is the emergency contact number.
PARENT ACADEMIC SESSIONS (OPTIONAL)
If you are interested in learning more about the degree programs available at RIT, you may attend optional academic sessions for parents. Representatives from RIT will present an overview of majors within each college and answer your questions.

JULY program: You may choose one College from each Academic Session Part:
Session Letter & Name:
Part I:    A: College of Engineering Technology
          (Engineering Technology, Media Sciences & Packaging Science)
          B: College of Art and Design (Art & Film/Animation)
          C: College of Science
          D: College of Liberal Arts
          E: School of Individualized Study
Part II:   F: Golisano College of Computing & Information Sciences
          G: College of Art and Design (Design & Photography)
          H: University Exploration Program (for undecided students)
          I: College of Health Sciences & Technology
Part III:  J: Kate Gleason College of Engineering
          K: Saunders College of Business

AUGUST program: You may choose one College from each Academic Session Part:
Session Letter & Name:
Part I:    B: College of Art and Design (Art & Film/Animation)
          D: College of Liberal Arts
          E: School of Individualized Study
          F: Golisano College of Computing & Information Sciences
          I: College of Health Sciences & Technology
Part II:   A: College of Engineering Technology
          (Engineering Technology, Media Sciences, & Packaging Science)
          C: College of Science
          G: College of Art and Design (Design & Photography)
          H: University Exploration Program (for undecided students)
Part III:  J: Kate Gleason College of Engineering
          K: Saunders College of Business

Please visit admissions.rit.edu/majors.pdf for more information regarding the academic programs offered by each college.
REGISTRATION INFORMATION:

**PROGRAM I:** July 19-20  \n**REGISTRATION DEADLINE:** July 12

**PROGRAM II:** August 2-3  \n**REGISTRATION DEADLINE:** July 26

To make your reservation for College & Careers, please complete and return the Registration Form, Waiver of Liability/Medical Permission, Behavior Contract, and your check or money order by the deadline above to:

Rochester Institute of Technology, Undergraduate Admissions Office, Bausch & Lomb Center, 60 Lomb Memorial Drive, Rochester, NY 14623-5604.

You can also register online at: [http://admissions.rit.edu/careers/](http://admissions.rit.edu/careers/). Visa and Master Card accepted.

Some workshops will be offered in either July or August. Please check the session descriptions to ensure that you have selected the correct workshops and program to attend. Space is limited, and reservations will be honored on a first-come, first-served basis.

**REGISTRATION FEE:** (please make checks payable to: RIT)
- $145 – Two-day program, meals, and overnight accommodations
- $135 – Two-day program and meals only (without overnight stay)

**ADDITIONAL FEES FOR FAMILY:**
- $10.00 per person pre-purchased for lunch on Saturday (optional)

**OTHER THINGS TO KNOW:**

**Accommodations:** Overnight accommodations are available for students in our campus residence halls. Rooms are assigned, and room keys will be distributed at Check-In.

**Roommates:** Roommates will be assigned during Check-In. We will be happy to accommodate specific roommate requests at that time.

**If you are staying in our residence halls:** You will be lodged in double rooms with standard twin-sized beds. **Bedding is not provided.** So plan to bring either twin sheets and a blanket or a sleeping bag and your own pillow/pillowcase, small fan and water bottle (optional – residence halls are not air-conditioned), alarm clock, towel, and toiletries.

**Students often ask what else to bring, here’s a helpful list:**
- *Comfortable walking shoes – you’re going to cover a lot of ground while you’re here!*
- *An umbrella – we’ll put the request in for great weather, but you just never know!*
- *Athletic clothing and shoes if you plan to use our recreation facilities on Friday night (sneakers, shorts, t-shirt, bathing suit).*
- *Closed-toe shoes for the Saturday academic sessions, these are hands-on and interactive sessions, so be prepared!*

Questions about College & Careers? Contact the RIT Undergraduate Admissions Office at 585-475-6631, Monday -Friday 8:30am - 4:30pm EST or by e-mail at: admissions@rit.edu.
REGISTRATION FORM

I plan to attend College & Careers during:

☐ Program I: July 19-20, 2019     ☐ Program II: August 2-3, 2019

Check One:

☐ I plan to **spend the night** on campus. Enclosed is my check for $145, signed Behavior Contract, and signed Waiver of Liability/Medical Permission Form.

☐ I **do not plan to stay overnight**. Enclosed is my check for $135, signed Behavior Contract, and signed Waiver of Liability/Medical Permission Form.

Student Name: __________________________

Date of Birth: ______________  ☐ Male  ☐ Female  Phone: (_____ ) __________

Address: ________________________________________________________________

City/State/Zip: ____________________________________________________________

Student e-mail: __________________________________________________________

Current High School: __________________________  Graduation Year: __________

Parent Name: ____________________________________________________________

☐ Please check if you, or someone accompanying you, has a hearing loss that requires sign-language interpreting services or real-time captioning (2 weeks advance notice is needed)

Please list, in order of preference, six sessions:

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☐ My family plans to attend the continental breakfast and information session on Saturday morning. _____ (#) will attend. (Complimentary)

☐ My family plans to have lunch on Saturday afternoon. _____ (#) will attend. Please include an additional $10.00 per person. (Note: Student participants’ meals are included in the registration fee).

Parent Academic Sessions (OPTIONAL)

If you are interested in learning more about the degree programs available at RIT, you may attend optional academic sessions for parents. Please see page 13 for available sessions and list your session choice(s) below.

List Session Letter & Name:

I  _____  ________________________________________________________________

II _____  ______________________________________________________________

III _____  ______________________________________________________________
WAIVER OF LIABILITY / MEDICAL PERMISSION

Please complete, sign and return along with the Registration Form and Behavior Contract. All students (resident and commuter) must have these forms on file with the Admissions Office before arriving at College & Careers.

1. I, ____________________________________________, am the parent or legal guardian of ____________________________________________. I give permission for my child, ____________________________________________, to participate in College & Careers (hereafter referred to as “activity”) occurring on __________________________ , 2019. This activity will involve recreational programs, games and athletic events that may involve inherent risks of participation.

2. In consideration for such participation, I, on behalf of myself, my child, my assigns, executors, and heirs, release, indemnify and hold harmless Rochester Institute of Technology (“RIT”), its trustees, officers, agents and employees from any and all liability, damage, expense and/or claim of any nature whatsoever arising out of or in any way related to my son/daughter’s participation in this activity or while he/she is on the premises of RIT for this activity.

3. I acknowledge that my son/daughter is free from any illness, injury or condition which would limit any and all participation in this activity.

4. Medical Authorization; I give permission for my son/daughter (print child’s full name) , ____________________________________________, to be treated by the staff of RIT, RIT Ambulance and/or by any medical professional for medical illness and injuries, and give them permission to take emergency measures as they deem appropriate. I accept full responsibility for any medical expenses incurred as a result of these actions.

5. In signing this agreement, I acknowledge that I have read this waiver and the College & Careers brochure, and I agree to be bound by their terms. I further acknowledge that I am the parent or legal guardian of the student, and that I sign this agreement voluntarily.

(                               )
Parent or Guardian Signature                      Date                     Emergency Phone #

Address                                                                              City                               State  Zip

Parent email

__________________________________________________________
Health Insurance Policy Holder Name          Insurance Company Name            Policy Number

Mail to: RIT - Admissions Office - 60 Lomb Memorial Dr - Rochester, NY 14623 or Fax to (585) 475-7424

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BEHAVIOR CONTRACT
College & Careers has a strong history of safe and informative programming. A positive experience is fostered by the following guidelines, which help ensure that all participants treat one another and RIT with respect. In addition to complying with all federal, state and local laws, participants are expected to comply with the guidelines below:

RIT CONDUCT CODE (excerpts)
**Alcohol:** The consumption or possession of alcoholic beverages is prohibited in all RIT residence halls regardless of age or circumstances.

**Drugs:** RIT explicitly prohibits use, possession, sale, manufacturing or trafficking of illegal drugs on RIT property. Federal, state and local laws regarding drug use apply.

**Theft:** Attempted or actual unauthorized possession of RIT property or other personal or public property is prohibited.

**Vandalism:** Attempted or actual damage to or alteration of RIT property or other personal or public property is prohibited.

**Fire Safety:** Setting a fire, causing a false fire alarm, or causing an unreasonable situation that creates a fire safety hazard is prohibited.

**Sexual Misconduct:** All forms of sexual misconduct, including any form of unwanted sexual contact, are expressly prohibited.

**Endangering Behavior:** Conduct that threatens or endangers the health and/or safety of a person(s) including but not limited to exiting a building through the window or the throwing of objects out the window is prohibited.

COLLEGE & CAREERS CONDUCT CODE
**Leaving Campus:** College & Careers participants are not allowed to leave campus during the program unless prior arrangements have been made between the student, parent and College & Careers program coordinator. This excludes students who have designated themselves as “commuter” students.

**Leaving Residence Halls:** College & Careers participants are not allowed to leave their residence halls between the hours of 11:30 PM and 7:00 AM (except in case of emergency) and must be in their assigned rooms by 1:00 AM. All entrances to the residence halls will be locked, for safety, and guests will not be issued main door keys.

**Commuter Students:** Programming on Friday night ends at 11:00 PM for commuter students and they are required to leave campus at that time. A commuter student is one who has not indicated a need for overnight accommodation on-campus.

**Quiet Hours:** Quiet hours are established between 11:00 PM and 7:00 AM. Conduct that breaches the peace of the community is forbidden.

**Smoking:** Smoking is prohibited in any indoor area at RIT during College & Careers. This includes, but is not limited to, residence hall rooms, lounges, the Student-Alumni Union, and the Gordon Field House.

**Keys & Meal Cards:** You will be issued a room key and meal card upon check-in. There is $85 charge for any key that is not returned by check-out, and a $5 charge for any meal card that is not returned by check-out.

ACTIONS
Any participant of College & Careers exhibiting any of the behaviors listed above may be subject to one or more of the following actions. The parent(s) or guardian(s) may be contacted. The student may be removed from the program.

Student Signature: ___________________________________________________________________

Parent/Guardian Signature:  __________________________________________________________