College & Careers

discover
your future now

July 18-19, 2014
August 1-2, 2014

R·I·T
Rochester Institute of Technology
“Everything was excellent and very educational. The program opened up careers that I never thought about before.” —student

“This was one of the best campus visits I have attended! It was extremely well organized, the campus was superb, and the staff were all helpful, friendly, and knowledgeable.” —parent

“The needs of the parents and the students were well met. My daughter had a wonderful time and came away with valuable information about her intended major as well as college life...” —parent

“I think this is the best thing a college could do for interested students. It gave us a chance to meet the staff, RIT students, and other seniors who may be coming to RIT. In my opinion, RIT has the best staff and facilities of any other college I’ve seen.” —student

“The best staff and facilities...”
Explore, investigate and sample academic programs and career paths this summer at RIT!

The 24th 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:**
- 1:30-3:30 p.m. Check-In
- 1:30-3:00 p.m. Campus Tours
- 1:30-3:30 p.m. Room-With-a-View (decorated Residence Hall rooms for viewing)
- 3:45-5:15 p.m. Welcome and College & Careers Introduction
- 5:15-6:30 p.m. Dinner
- 6:30-7:15 p.m. Admissions Presentation (optional)
- 7:15-9:00 p.m. RIT Student Panel & Entertainment Kick-Off
- 9:00-11:00 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:**
- 1:30-3:30 p.m. Check-In
- 1:30-3:00 p.m. Campus Tours
- 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)
- 6:00-7:00 p.m. Liberal Arts Faculty Presentation
- 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 at Gracie’s (pre-purchased at $8.70 per person all-you-can-eat)
- 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, & CRAFTS** (Also see workshops 19, 20, 24, 26, 27, 30, 52)

#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 Ceramics: Hands on Clay
Are you interested in making pottery or ceramic sculpture? Stimulate your creativity with this hands-on experience in our School for American Crafts! Get an introduction to design vocabulary, technical skills, and the exciting world of creative expression! *Double Session

#3 Fine Arts
Whether through painting, printmaking, sculpture or any new forms (computers, video, installation, performance), fine arts emphasize personal expression. From representational renditions of a scene to various forms of abstraction and concept-driven work, fine arts encourage you to express your ideas and feelings. Explore the possibilities in this hands-on workshop. *Double Session

#4 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 and the use of design-oriented computer software for production of the project. *Double Session

#5 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

#6 Industrial Design in 3D
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

#7 Interior Design
Interior designers shape the spaces where we live, work and play. This session will provide an introduction to the multi-faceted profession of interior design, where technical and creative solutions are applied to create aesthetically pleasing, and most importantly: functional spaces. Architectural form, sustainable building methods, human factors, lighting, furnishing, finishes and materials are some of the myriad of tools we use to create innovative, cutting edge design. You will complete a mini design project. *Double Session

#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 focuses on content concept and generation, design and implementation, as well as program- 
ing and software training. In the fast paced world of interactive media and motion graphics, this pro-
fessional is well equipped with aesthetic creativity and the knowledge and flexibility to meet this ever changing 
industry's needs and expectations. Combining design theory, an understanding of computer graphics and 
programming languages and their uses, these artists become skilled interactive designers. *Double Session

#10 Woodworking & 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

#11 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 very own completed piece. You will also 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

#12 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 45, 50, 52, 57, 65, 66)

#13 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 examine conditions under 
which lower quality products survive in the marketplace. **August only

#14 Hospitality & Tourism Management: Innovative Food Careers
What is the menu like at world class resorts? How does a food company know one of its products will be 
popular? Who creates our favorite snack, fast food sandwich, salad, ready-to-eat meal, or recipe? What 
products will be on our plates tomorrow? You will answer these questions and get some kitchen time to 
create your own food innovation. **August only

#15 Hospitality & Tourism Management: Creating Special Events and Meetings
Everyone loves a party, wedding, festival or special event. When people get together, good things happen and 
memories are created. Would you like to be one of the people that help to bring people together, and create a 
special, successful event? We will investigate the kinds of events, careers involved with events, and steps you 
need to create a great party! **July only

#16 How Will Trends in Management & International Business Change Your World?
Do you know on average, at least one third of sales of all major American firms comes from overseas? Do 
you know which is the largest market for auto, smartphone, solar power, and ecommerce? Learn about these 
and more important facts about International Business and discover how we are facing a very different world 
from five years ago because of competition from overseas. We will also explore a key to success in this ever-
changing business environment - understanding and utilizing the role of employee creativity and teamwork to 
drive innovation. This workshop will engage students in using Management tools to achieve this objective.

#17 Play Beat the Market Game Online, and Learn About Accounting & Finance
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.
COMMUNICATIONS & MEDIA (Also see workshops 4, 9, 30, 47)

#19 Basic Color Science
This exercise will introduce the fundamentals of colorimetry: understanding colorimetry is the foundation for color control in media workflows. Using colorimetry, participants will use Adobe Creative Suite to recreate a color study originally produced by noted artist and color theorist Josef Albers. Work will be printed out for participants to take with them. *Double Session **August only

#20 Be a Media Architect for a Day: Digital Design for Publishing
Combining familiar tools like Adobe Photoshop and InDesign with the power of XML, you'll learn about the next generation of publishing as you create a custom publication during this hands-on session. By leveraging templates and tools created at RIT, you'll get a taste of the world of magazine production. Give your magazine a title and create a layout with pictures and stories. *Double Session **July only

#21 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.

#22 Communication, Journalism & APR: Your Personal Message
Communication is a part of daily life across many media. Whether through traditional news outlets, blogs, television commercials, web ads, press releases, or pamphlets, we are constantly absorbing messages and information. The fields of Journalism, Advertising & Public Relations, and Communication all work to help refine these messages and deliver them in ways that best serve the audience. Create visual and textual messages based on your individual identity for the purpose of persuading or informing an audience.

COMPUTING & INFORMATION SCIENCES (Also see workshops 1, 9, 18, 20, 35, 36, 37, 40, 62, 64)

#23 Autonomous Robot Development
As robotic technology becomes more prevalent and computers more powerful, robots have the potential to perform more complex and useful tasks on their own. In this session, you will learn how we program robots to understand their environment, watch robots perform tasks on their own, and have a chance to control a robot as it drives around and reports on its environment. **August only

#24 Computer Graphics, Virtual Reality, and Gaze Based Applications
This session highlights research in the Computer Science Graphics and Applied Perception Lab. Through hands-on demonstrations, you will explore active research areas involving computer graphics such as learning how eye gaze tracking can be used in art, science, and everyday applications, making use of motion capture technology for control of avatars in virtual worlds, and discovering how facial motions can be used as an interface to computer applications. **July only

#25 Computing Security: You Can't Hack This!
Do you have a smartphone? Do you use it for Facebook, Instagram, SnapChat, or Google? Do you use a password or PIN? Do you use your GPS for directions? Do you think your information is secure? Do you know who else has access to your personal data? Computing Security students learn how mobile hackers exploit the vulnerabilities in mobile phones and how to implement the necessary techniques to defend against these attacks. You will learn about the tools attackers use and how they can use social engineering techniques to gain access to your mobile data.
#26 Game Development Tools for Everyone
Developing games today for desktops and mobile are becoming easier. Games can be made with tools that
do most of the heavy lifting for the developer and are free to use. We will touch on some of the development
tools that are being used in the gaming industry and by independent developers to make their own games and
publish them in places like the Windows 8 store, mobile platforms, and the Xbox One. **July only**

#27 Game Design & Development: What Does It Take for a Career in Gaming?
Get an overview of careers in Game Design & Development and the academic preparation requirements for
the degree. See games and apps created by current and former students, several of whom now enjoy careers
at Microsoft, Sony, Electronic Arts, and Vicarious Visions. Faculty will answer questions about RIT’s
computing focus on game design and development topics, and the integration of game study within our
curriculum. **August only**

#28 Information Technology: Careers for the Digital World
Do you want a career where you can use the incredible power of computing to do wonderful things? Come
visit us and we’ll tell you about our program in information technology that includes courses in mobile
computing, web design and development, database design and development, and human-computer interac-
tion. What you can accomplish with information technology will be limited only by your imagination! We'll
also include an overview of employment opportunities and career paths. **August only**

#29 Networking and Systems Administration: Making the Internet Happen
Facebook, Pinterest, FourSquare. We use these and other applications every day from our home, school, and
on the road. What makes it possible? What's next in the world of ubiquitous computing? It's up to you when
you get involved in networking and systems administration. In this session we'll open up the world of
networking and systems administration so you can see where we are and where we are headed.

#30 New Media Interactive Development: Where Technology Meets Creativity
Casual and mobile game development, rich media applications and website design, interactive 3D, and
surface computing are just a few of the areas we explore by blending computing with the arts. For those who
enjoy creativity as well as technical problem-solving, this is an exciting field. You will have an opportunity to
design, build and play test an interactive app using motion sensing technology and music. **August only**

#31 Software Engineering: Team-Based Software Development
We are witnessing an explosion in the demand for software—for office productivity, corporate information,
e-commerce systems; for industry, manufacturing, and health care; for home entertainment and personal
gadgets; 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.

ENGINEERING & ENGINEERING TECHNOLOGY
(Also see workshops 31, 63, 64, 69, 70)

#32 Biomedical Engineering: Engineering Solutions for the Human System
If you like helping people and using technology, biomedical engineering might be for you! Biomedical
engineers 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. See the impact
of technology on the medical practice and learn about the kinds of jobs these engineers do in their profession.

#33 Chemical Engineering: The Engine of Industrial Society
Our modern industrial economy is critically dependent upon chemical engineering for manufacturing bulk
and specialty chemicals and high-tech materials. 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 raw
materials with desired purity, on a scale that meets the demands of virtually every industry. Chemical engi-
neers 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.
Civil Engineering Technology graduates work on BIG engineering projects. They analyze, design and manage the construction of buildings, bridges, roads, railways, treatment facilities, wind farms, storm water management facilities, etc. Overall, they develop our built environment in society, hence the term ‘civil’. In addition, civil engineering technology graduates work towards developing sustainable infrastructure that will protect and conserve resources. Learn about the civil engineering profession and join our friendly bridge design competition using West Point Bridge Design software.

Computer engineers use their knowledge of software and hardware design to develop and implement a variety of real-world products and systems, ranging from cell phones and smart appliances to robots and security systems. Through hands-on experiments, you will interact with simple games on a microcontroller board, which will help you better appreciate the interface between software and hardware.

How many computer-controlled objects do you see every day? Anti-lock brakes, gaming systems, digital cameras, and wireless routers are all examples of products that contain embedded computers. The design, development, and production of embedded computers are the heart of the Computer Engineering Technology program. This session explores the many exciting and challenging career opportunities available for computer engineering technology graduates and will include a laboratory project.

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.

Experience what it's like to engineer a surround sound system including the analog electronics and digital audio production using professional audio equipment in our high-tech laboratories. You will have the opportunity to build components of the system, record live music and reproduce this music in surround. Professors and students from our programs will be available to answer your questions about our exciting offerings in the fields of telecommunications, audio and power engineering.

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 computer-assisted product designs, control and improve processes, and design real-world assembly and distribution processes.

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.

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.

#42 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!

#43 Microelectronic Engineering: Fabrication of Modern Nano-scale Electronics
In this session, students will dress in a "gown," enter RIT’s outstanding clean room laboratory and be guided through the process of photolithographic patterning of features on a silicon wafer. This is a key process used in the nano-scale manufacturing of a wide variety of modern electronic devices we use daily. Devices such as microprocessors, cell phones, memory, light emitting diodes, solar cells, microsensors and more. Learn about the course work, equipment and process supported by the lab, as well as employment and graduate school opportunities in this exciting field. When this session is over, you will get to take home the souvenir wafer that you processed. *Double Session

#44 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 tester! 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.

ENVIRONMENTAL STUDIES (Also see workshop 33, 44)

#45 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! Environmental Managers earn high salaries helping companies produce goods and services without contaminating the environment. 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.

PHOTOGRAPHY & FILM

#46 Aerial Photography with Remote Controlled Drones
This workshop will demonstrate the use of remote controlled drone technology for acquiring aerial video and still images. Participants will learn about the range of available technologies from low to high-end aerial platforms and cameras. Aerial videos of the participants on the RIT campus will be made and posted to YouTube during the class. *Double Session

#47 Biomedical Photographic Communications: The Magnified Image
Picture the delicate complexity of a snowflake and the geometric drama of a crystal's brilliant facets, the surprising intricacy of granules of sugar and an inedible crystalline relative, sand. The possibilities for discovery through photography with a microscope will blow you away. Explore this inner world, bursting with 3D shape and color. Images from this session will be able to be published immediately to your Instagram or Facebook accounts for the workshop.

#48 Motion Picture Science: Basic Technical Concepts and Workflows
Have you ever wondered how digital video cameras work? Motion picture film? Digital and film projectors? What about all the systems used to create a movie? From editing and color correction to how special effects and 3D elements are added, this session will focus on imaging and color science, image...
processing and systems architecture of different motion picture imaging workflows. You will learn how motion imaging systems work and how they are put together to create the wonderful movies we all enjoy! If you have an engineering mind and also like to express your creativity, make sure to attend this session!

**SOCIAL SCIENCE & HUMANITIES** (Also see workshop 13)

#49 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.

#50 International and Global Studies: What in the World!!?
International and Global Studies at RIT takes a 360-degree look at life around the world, from culture and society, to politics and history, to language and economics. As a student, you'll get the opportunity to learn a new language, study abroad or work abroad, and choose fascinating areas of study. We'll introduce you to the world like you never knew it: Fun Facts, Fascinating Features, and Flippant Frivolity concerning the countries and cultures of the world! Have fun with international studies!

#51 Liberal Arts Exploration: Undecided About Your Major?
Attention: Anyone interested in learning about career choices available to liberal arts graduates. This session offers the opportunity to explore your personality type and interests, and learn which liberal arts programs fit you best! 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 your major in the College of Liberal Arts.

#52 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.

#53 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 OK 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.

#54 Political Science: Planet of the Apes
Do clones have rights? New biotechnologies are challenging the very foundations of democracy and limited government. In this presentation you’ll learn about the ways in which new biotechnologies are changing how we think about citizenship, consent, and personhood. We'll take a close look at the remake of Planet of the Apes as a way to challenge our preconceived notions of what it means to be human. Students will have the opportunity to take sides in the debate and think more deeply about how they understand their own place in government and their relation to other citizens. **July only**

#55 Political Science: To Boldly Go...
Come see this multi-media presentation on the politics of the original Star Trek television series. Learn how Star Trek reflected the American faith in liberal democratic institutions, the principles of equality, and
government by consent. Learn how, despite the Prime Directive, Captain Kirk, Spock, McCoy, and Scotty tried to make the galaxy safe for democracy by remaking the planets they visited in an image of an idealized America. Learn how the optimism and moral confidence of the crew of the USS Enterprise waned and wavered as the galaxy became more democratized, globalized, and peaceful. 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. **August only

#56 Psychology: Zombies Aren't the Only Ones Who Want Brains
How do the different parts of the brain work together to produce thoughts and behaviors? How can we measure the different things a brain can do? What happens to a person whose brain is damaged? These are the kinds of questions asked by Psychologists. Examine these topics and more by looking at real tests used by psychologists to examine brain function and the surprising responses given by brain-damaged patients.

#57 Public Policy: The World of a Policy Analyst
Maybe you are a U.S. ambassador negotiating an international climate change treaty. Or perhaps you are a regulatory affairs specialist informing your company about the impacts of new regulations. Or maybe you are a Homeland Security consultant providing advice on how terrorist threats should be thwarted. Welcome to the world of the policy analyst! Public policy combines an understanding of government, technology, and the social sciences to formulate policies for addressing today’s most important problems. You will learn about the skills needed for a successful career in public policy. **July only

#58 Sociology and Anthropology: Social Insights for a Globalizing World
The social world around us is ever more intriguing. Basic human relationships are being fundamentally transformed by global trade, information and transportation technologies, media and popular culture, and the movement of people across continents. Sociology and Anthropology are related fields of study dedicated to the understanding of society and culture. These disciplines examine social groups, relationships, institutions, their cultural meanings, and their differences across the globe. Everything from gender and sexuality, to concepts of “race” and ethnicity, family and marriage, migration, inequality, violence and justice, colonialism, urbanism and city life, slavery and human rights, the human impacts of natural disasters, and transnationalism are grist for the mill. Within anthropology, there are specialists in contemporary cultures and societies (cultural anthropologists) and also archaeologists, who study past human cultures through their materials remains. Join in and discuss how sociology and anthropology can be applied in today’s job market.

**SCIENCE, MATHEMATICS & MEDICAL SCIENCES**
(Also see workshops 8, 32, 33, 44, 47, 48, 56)

#59 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

#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?
Using state of the art technology in our fitness and nutrition labs, learn about and use various tools available to measure several aspects of your personal fitness level and recommended nutrient intake to meet your health and fitness goals. **July only

#62 Genome Sequencing Technologies and Bioinformatics
Technologies called “Next Generation Sequencing” are transforming the way that we explore the genetics of disease and expand preventative medicine. In this activity-based session, we will discuss the basics of these technologies, how bioinformatics is crucial to their success in solving "the world's largest jigsaw puzzle", and what careers are building around these technologies. **August only
#63 Health Frontiers and Technology: Collaborative Visions
This session draws from interdisciplinary projects and programs at RIT to highlight the ways in which engineering, biomedical research, imaging, computer science and informatics will help to drive forward new advances and opportunities in medicine and human health. We will also discuss a host of bio and engineering-related majors at RIT in order to help students begin to envision where they might best fit for undergraduate work. **July only**

#64 Imaging Science: Virtual Reality Experiments on Hand/Eye Coordination
Although even a young child can catch, kick, or dodge a thrown ball almost effortlessly, the underlying mechanisms and strategies that afford us our athleticism are still a mystery. In the PerForM Lab, we attempt to better characterize these mechanisms one experiment at a time. Our experiments involve several modern technologies, including high-resolution virtual reality displays, full-body motion capture, and high-precision gaze-technologies. Learn why we rely upon these high-tech tools. Come and experience the joys of hitting a virtual tennis ball, strolling through a virtual Spanish square, or falling off a virtual cliff!

#65 Mathematical Sciences: Escaping the Executioner
A prisoner is set to 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 on the hangman's structure 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 so 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.

#66 Mathematical Sciences: Let's Make A Deal
In this popular 1970's televised game show there is a brand new car behind one of three closed doors. There is a goat behind each of the other two doors. The host of the show knows which door conceals the car and he asks you, the contestant, to choose one of the three doors. Your prize will be whatever is behind the door you end up choosing. He opens one of the two doors that you did not choose and shows you that there is a goat behind this door. He then asks you to make a choice: Either you keep the door that you originally chose OR you switch and choose the other door which hasn’t been opened yet. Once you make this choice, the host opens the door you chose and reveals whether you win a new car or a goat. In order to obtain the best chance of winning the car, what should be your choice? We use simple probabilities to answer this question. You may be surprised by the result!

#67 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. **August only**

#68 Medical Ultrasound
If you are thinking of a profession in the medical field, want to work with patients, have job stability and security, make a difference and even go to medical, dental or professional schools, then you must join our ultrasound team. The ultrasound team will walk you through a real, live and interactive demonstration (perhaps you will act as a patient or an ultrasound professional) to learn how this exciting ultrasound imaging modality looks at normal anatomy and diagnoses diseases. Yes, ultrasound is more than babies! Take a "live" look inside our bodies and see our organs without making any incisions or cuts or using any radiation or x-rays. Will this be your ideal college major or future profession?

#69 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**
#70  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. **August only**

#71  Premedical Studies and Biomedical Sciences: What’s Up Doc?
What’s the difference between a normal lung and a diseased lung? Come learn about emphysema, heart disease, cancer, and other pathologies by examining actual normal and diseased human organs. Discuss what it takes to be a doctor and how you can be prepared for the medical profession with pre-medical education. Learn how a degree in Biomedical Sciences can prepare you for many medically-related areas of focus, including dentistry, pharmacy and sports medicine.

UNDECIDED & MORE

#72  It's Not Deadly to be Undecided
The University Studies Program needs your help to solve the greatest mystery to ever tarnish the RIT campus. There has been a murder and we need intelligent, inquisitive, major investigating sleuths like you to help unravel the clues. Don’t worry...knowing all your major options at RIT is not a prerequisite for this job. A keen intellect and desire to find out more about the many majors offered at RIT will do the trick.

#73  Air Force ROTC: Air Force Information Session
Are you looking for a career with a bright future and serve your country at the same time? Do you want to develop leadership and management skills and have a guaranteed full time position as an officer of the world's best Air Force waiting for you upon graduation with excellent wages and benefits? The Air Force offers you that opportunity and AFROTC can make it a reality. One of the many benefits of ROTC is the chance at a scholarship that can help with tuition, books and even give you some extra monthly spending money. Learn all about AFROTC and what it takes to be a fearless, competent leader and achieve your full potential.

#74  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.

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/

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.

COMMUTER 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 for Check-In 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. 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 to be 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 Applied Science & Technology
   (Engineering Technology, Hospitality & Tourism Management, & Packaging Science)
B: College of Imaging Arts & Science (Film/Animation, Photography, & Media Sciences)
C: College of Science
D: College of Liberal Arts

**Part II:**
E: Golisano College of Computing & Information Sciences
F: College of Imaging Arts & Sciences (Art, Design, & Crafts)
G: University Studies (for undecided students)
H: College of Health Sciences & Technology

**Part III:**
I: Kate Gleason College of Engineering
J: Saunders College of Business

**AUGUST program: You may choose one College from each Academic Session Part:**

**Session Letter & Name:**

**Part I:**
D: College of Liberal Arts
E: Golisano College of Computing & Information Sciences
F: College of Imaging Arts & Sciences (Art, Design, & Crafts)
H: College of Health Sciences & Technology

**Part II:**
A: College of Applied Science & Technology
   (Engineering Technology, Hospitality & Tourism Management, & Packaging Science)
B: College of Imaging Arts & Science (Film/Animation, Photography, & Print Media)
C: College of Science
G: University Studies (for undecided students)

**Part III:**
I: Kate Gleason College of Engineering
J: 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 18-19  REGISTRATION DEADLINE: July 11

PROGRAM II: August 1-2  REGISTRATION DEADLINE: July 25

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/. 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:
$8.70 per person pre-purchased for lunch on Saturday at Grace Watson Dining Hall (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 18-19          ☐ Program II: August 1-2

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 at the Grace Watson Dining Hall on Saturday afternoon. _____ (#) will attend. Please include an additional $8.70 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 ______________________, 2014. 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
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: ___________________________________________________