College & Careers

discover your future now

Rochester Institute of Technology

July 20-21, 2012
August 3-4, 2012
“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
Explore, investigate and sample academic programs and career paths this summer at RIT!

The 22nd 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

* tentative schedules

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)
6:00-7:30 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 $8.25 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, 23, 25, 29, 49)

#1 3D Digital Graphics
Use 3D computer graphics in computer and video games, medical and scientific simulations, data visualization, models for architects and engineers, motion or broadcast graphics, instructional media accident reconstruction, and more. Traditional design skills using commercial 3D software are integrated with principles relating to time, motion, and lighting. See how 3D Digital Graphics combines basic art skills and 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 emphasizes 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: Creativity, Composition & Computers
Graphic designers use visual communication to inform, persuade, and entertain audiences. This session will provide an introduction and overview of the graphic design profession. Students will design layouts by combining typography and imagery into interesting compositions by integrating visual balance, figure/ground, cropping, 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. As an introduction to the profession of industrial 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 during this session. *Double Session

#7 Interior Design
We will introduce you to the exciting profession of interior design, which incorporates creativity and human factors to create usable spaces. Color, light, materials, physical environment, architecture, and design concepts are some of the aspects involved in creating work, home, showroom, retail, restaurant, and exhibit spaces. A short project will take place during the session. *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
New Media Design & Imaging

New Media Design & Imaging focuses on content concept and generation, design and implementation, as well as programming and software training. In the fast paced world of interactive media and motion graphics, the New Media Design professional 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 in-depth understanding of computer graphics and programming languages and their uses, these artists become highly skilled interactive designers.

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.

Work with Glass

In our well-equipped studio, you will have first-hand experience working with glass to create a completed piece. You will also be introduced to the exciting career possibilities in the glass field, as an artist, industrial designer, or production craftsman. Explore your creative potential!

Work with Metals

You will be introduced to properties of metals using a variety of tools and techniques to create your very own piece. You will also explore some of the many career options for metal workers, such as educators, jewelry designers, sales and marketing specialists, artisans, gem setters, and gallery managers!

BUSINESS & MANAGEMENT (Also see workshops 27, 44, 48, 49, 53, 59)

Accounting: There's More to it than Meets the Eye

From public accounting to management accounting, from financial reporting to white-collar criminal investigations, the field of accounting is far broader than you ever imagined. Learn about the many possibilities for careers in accounting and the educational pathways that will help get you there.

Corporate Finance

Finance professionals play an important role in helping determine the future of our economy. Learn about the time value of money, how assets are valued, what budgeting entails, and key factors to be considered when managing capital.

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.

International Business: Issues in the New Global Economy

Join this interactive workshop to share and discuss how the world is changing on a daily basis, and learn how this requires business leaders to develop new and creative ways to adapt.

Management: Why are Creativity and Innovation Essential in Business?

A key to success in today's ever-changing business environment is both 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.

Marketing on the Internet: Where are my Customers?

An Internet presence is an essential aspect of marketing today. Learn how your favorite brands use search engine marketing (SEM) to get your attention. In this hands-on, interactive session you will search for your favorite brands, discuss how (and how not) to sell across the Internet, and see how retailers engage customers using the web and social networks.
COMMUNICATIONS  (Also see workshops 4, 9, 18, 29, 45)

#19  Be an Art Director 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 fast-paced hands-on session. By leveraging templates and tools created at RIT, you'll get a taste of the exciting world of magazine production. Give your magazine a title and create a 4-page layout with pictures and stories. Leave with your magazine in hand. *Double Session

#20  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.

#21  Communication: Create Your Own Article
Communication is a part of daily life across many mediums. 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 Professional Communication all work to help refine these messages and deliver them in ways that best serve the audience. You will get a quick introduction to a communication application and then be led through an exercise that combines written and visual elements into a single document. Results will be posted online in an interactive format.

COMPUTING & INFORMATION SCIENCES  
(Also see workshops  1, 9, 19, 34, 35, 36, 39, 42, 52)

#22  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

#23  Computer Graphics, Virtual Reality, and Gaze Based Applications
This session highlights current research in the Computer Science Graphics and Applied Perception Lab. Through hands-on demonstrations, you will explore active research areas that involve computer graphics. For example, 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

#24  Cyber Security, Privacy and Data Protection
Have you ever wondered how secure your data is? Are passwords enough to protect your data? Are your Facebook posts really private? How secure is your network and PC/Laptop? Using a Linux Live CD and network capture software, we will show you how information can be captured and used without your knowledge. We will also discuss data recovery and security best practices. While you are learning about cyber security, we will also talk about the exciting work that networking and security professionals do and how our Information Security & Forensics and Networking & Systems Administration degree programs prepare you for these exciting careers. Our programs include learning how to identify computer and network security vulnerabilities, recognizing and repelling all types of attacks, and understanding the forensic requirements to prove that an attack occurred, where it originated, and the extent of damage the attack caused.
#25 Game Design & Development: What Does It Take for a Career in Gaming?
This session provides an overview of careers in Game Design & Development, curriculum for the Bachelors of Science degree, and the academic preparation requirements. Get hands-on experience with games and virtual worlds created by current and former students, several of whom now enjoy careers at Microsoft Xbox, Sony Computer Entertainment of America, Electronic Arts, and Vicarious Visions. Students and faculty will be on-hand to answer questions about RIT’s computing focus on game design and development topics, and the integration of game study within our curriculum.

#26 Information Technology: Careers for the 21st Century
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 interaction. 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.

#27 Management Information Systems: The Power Behind a Successful Business
What does it take to get from "order to cash?" Find out how information and technology fit together and become what makes a business work. In this workshop you will learn about the latest technology, software, databases, and management processes used in business to communicate about and solve business challenges.

#28 Medical Informatics: Empowering Healthcare with IT
Health IT professionals combine their knowledge of computing with medical practice to lead our doctors and nurses into the information age. RIT is one of the pioneers in the field of medical informatics. The Medical Informatics program has a very successful premedical track with 100% acceptance into medical schools. According to the U.S. Department of Labor Statistics, there is a shortage of health IT professionals. Come and learn how you can become a computing professional for the medical field and help transform our health care system. Participate in anatomy explorations using a computer program called ADAM!

#29 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 emerging field. You will have an opportunity to explore websites and online multi-user games and simulations made by our New Media students.

#30 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 hand-held computers and cellular phones. Software Engineers apply engineering problem-solving techniques, identify user requirements, develop specifications and identify possible solutions. 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 30, 56, 57, 59, 62, 65)

#31 Biomedical Engineering: Improving the Quality of Life and Healthcare
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. 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.
#32 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 in our modern society. Chemical engineers also use their knowledge of chemical transformation to create such materials in an environmentally friendly way. Through lab demonstrations, learn how chemical engineers exploit chemistry to impact the world around us.

#33 Civil Engineering Technology: Making a Difference in Our World
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.

#34 Computer Engineering: Circuits to 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.

#35 Computer Engineering Technology: The World of Embedded Computers
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. Explore the many exciting and challenging career opportunities available for computer engineering technology graduates and will include a laboratory project.

#36 Electrical Engineering: Electronics, Computers, Antennas, Robots & Images
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 Electrical Engineering Technology: Power For Tomorrow's Generation
Do you want to be part of the power industry, design and test portable electronics or broadcast and communications systems? Start today with a hands-on application in our high-tech laboratories. Skin resistance varies with the level of stress experienced by a person. A professor with years of design engineering experience will lead you in constructing and testing an electronic circuit to measure skin resistance. Get involved in this fun and educational experiment.

#38 Industrial & Systems Engineering: Making “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 cost, quality, and safety…they bring all of the pieces of the system together to work harmoniously. In this lab, you will see how to create computer-assisted product designs, control and improve processes and systems using computer-based simulation tools, and design real-world assembly 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. You’ll learn about robotics and computer-controlled machines, explore the robotics and automation lab, run a variety of industrial robots, and visit the multimillion-dollar Center for Electronics Manufacturing laboratory. In this laboratory, you will operate automated equipment used to produce circuit boards like those used in cell phones, DVD’s, 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.

Students, faculty, and staff from RIT’s Department of Mechanical Engineering 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!

The world as we know it would not exist without the microchip…the internet, computers, cell phones, GPS, electronic cars, appliances, solar cells, and robotics all rely on it. Integrated circuit technology has made possible the development of accelerometers, sensors, microelectromechanical systems, as well as chemical and biological chips. See how you can be part of this revolutionary field. Tour the RIT "cleanroom" and other laboratories - investigate how microelectronic engineers design, fabricate, and test these microchips using electrical engineering, computer-aided design, modeling and simulation, chemistry, physics, materials science, and optics.

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.

#44 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.

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, awaiting your detection. You will use both video and photographic techniques to create your own work.
#46 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 SCIENCES (Also see workshop 15)

#47 Criminal Justice
This session will introduce you to the fascinating world of criminal justice, high-tech crime, criminal behavior, and social control mechanisms - just a few of the topics covered in courses offered by the Department of Criminal Justice at RIT. You will hear from a leading instructor in this field who will provide an overview of 1) typical course requirements and student experiences, 2) other criminal justice course offerings and concentrations (e.g., in legal studies, criminology, and the criminal justice system), and 3) career opportunities within law enforcement, corrections, the legal system, the managed security industry, and the intelligence community.

#48 International Studies: Become a Global Expert
How can we build sustainable futures when nations collide through trade, war, technology, and media? How does the expanding world capitalist system transform local and national cultures, political identities, social practices, and cultural beliefs? What happens when new communication technologies, the Hollywood media, corporate enterprise, and the desire for commodity consumption spread to the most remote corners of the globe? Find out how this major prepares you for exciting careers by focusing on globalization, human rights, sustainable development, justice and peace, and populations politics, and by facilitating an international experience (study abroad), foreign language skills, and research opportunities.

#49 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, what does happen behind the scenes? Where do all of these objects come from? How do they become part of a museum’s collection? Where are they stored? How are they cared for? How are exhibitions planned? And, most importantly, who does this work? If you enjoy art, science, history, or archaeology and love to visit museums, this workshop will show you how those interests can be the foundation for a career as a museum professional. We will look at the wide variety of museums and the kinds of careers you can pursue.

#50 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 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 important questions that don’t yet have clear-cut definitions. 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, which is why philosophy majors typically do extremely well getting into law, business, and graduate school. Find out what they do, how they do it, and why they do it.

#51 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.
#52 Psychology: Exploring Behavior Through Computer Simulations
What kinds of cues do we use in recognizing anger in someone’s face? Could we use a computer to counsel patients? How can we ensure cooperation and trust among coworkers? These are the kinds of questions asked by psychologists. We’ll examine these topics and more using computer simulations. Learn about various careers in psychology and the college requirements for them.

#53 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**

#54 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, 28, 31, 32, 45, 52)

#55 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! Before you leave this session, we will teach you how to make your own slime.

#56 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.

#57 Imaging Science: Big Bang and Black Holes
Find out how the latest tools and techniques allow astronomers (and you) to make discoveries about the universe from the enigmatic super massive black holes found in the centers of galaxies out to the very edges of space itself. You will have the chance to learn about some of the most energetic phenomena in the universe and how we detect and explain them, while working with real data collected from observatories both on the ground and in space (such as the Hubble Space Telescope and Chandra X-ray Observatory). Leave with your own images and unanswered questions to investigate!

#58 Killing Them Softly With Our Song
Humans have been called “the primate that sings” because of our complex vocal behavior, aka language. But our noise is drowning out the sounds of other species, which can affect their ability to escape predators and find mates. Find out how scientists use technology to study animal “language” and impact of noise pollution on animal behavior and ecology. Try out some of these technologies yourself, the same used by biologists at RIT in their research. **July only**
#59 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!

#60 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

#61 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? **August only

#62 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

#63 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 premedical education. Learn how a degree in Biomedical Sciences can prepare you for many medically-related areas of focus, including sports medicine, pathology, and forensics. **August only

#64 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

#65 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
UNDECIDED & MORE

#66 Academic Major Murder Mystery
Something horrible has happened and someone sinister is to blame! 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 pre-requisite for this job. A keen intellect and desire to find out more about the many majors offered at RIT will do the trick.

#67 Air Force ROTC: Air Force Information Session
Are you looking for a career with a bright future? 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. This program will give you the opportunity to speak directly to Air Force officers and AFROTC Cadets. Learn what the AFROTC is all about and what it takes to be a fearless leader.

#68 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. The campus address is: 1 Lomb Memorial Drive, Rochester, NY 14623. 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:
Family members may be interested in staying in an area hotel. A list of local hotels and telephone numbers 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.
ROCHESTER AREA:
At Check-In, we will have a parent table with information about the Rochester area including: Museums (George Eastman House and International Museum of Photography, Memorial Art Gallery, Rochester Museum and Science Center, and The Strong National Museum of Play), Sporting Events (Rochester Red Wings baseball and Rochester Rhinos soccer) and Attractions (Letchworth State Park, Sonnenberg Gardens, Seabreeze Amusement Park, Casa Larga Vineyards, Seneca Park Zoo, New York Wine & Culinary Center, and Watkins Glen International Racetrack).

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, & Print Media)  
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:  
C: College of Science  
D: College of Liberal Arts  
E: Golisano College of Computing & Information Sciences  
F: College of Imaging Arts & Sciences (Art, Design, & Crafts)  

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)  
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  

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

PROGRAM I: July 20-21
REGISTRATION DEADLINE: July 13

PROGRAM II: August 3-4
REGISTRATION DEADLINE: July 27

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:
$8.25 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 20-21  ☐ Program II: August 3-4

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 $8.25 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 _______________________ , 2012. 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: ____________________________________