discover
your future now

College & Careers
2010
july 23-24
august 6-7

R·I·T
Rochester Institute of Technology
“Everything was excellent...”

“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

“extremely well organized...”

“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

“My daughter had a wonderful time...”

“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 20th 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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<td>1:30-3:00 p.m.</td>
<td>Campus Tours</td>
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<td>Room-With-a-View (decorated Residence Hall rooms for viewing)</td>
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<td>3:45-5:15 p.m.</td>
<td>Welcome and College &amp; Careers Introduction</td>
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<td>Dinner</td>
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<td>6:30-7:15 p.m.</td>
<td>Admissions Presentation (optional)</td>
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<tr>
<td>7:15-9:00 p.m.</td>
<td>RIT Student Panel &amp; Entertainment Kick-Off</td>
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<tr>
<td>9:00-11:00 p.m.</td>
<td>Social Activities and Free Time</td>
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### 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!

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<td>3:45-4:45 p.m.</td>
<td>Academic Session Pt 1 (College reps provide overview of majors &amp; more)</td>
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<td>5:00-6:00 p.m.</td>
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<tr>
<td>6:00-7:30 p.m.</td>
<td>Parent Reception. Location TBD</td>
</tr>
<tr>
<td>8:00-9:45 a.m.</td>
<td>Continental Breakfast</td>
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<td>Academic Session Pt 3 (College reps provide overview of majors &amp; more)</td>
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<tr>
<td>8:30-2:00 p.m.</td>
<td>Campus Tours</td>
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<tr>
<td>9:45-10:45 a.m.</td>
<td>College Prep 101: A Guide for Parents</td>
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<td>11:00-12:00 p.m.</td>
<td>Financial Aid Presentation</td>
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<tr>
<td>12:00-1:30 p.m.</td>
<td>Lunch at Gracie’s (pre-purchased at $7.75 per person all-you-can-eat)</td>
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<tr>
<td>12:00-3:00 p.m.</td>
<td>Room-With-a-View (decorated Residence Hall rooms for viewing)</td>
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<td>1:30-2:15 p.m.</td>
<td>RIT Student Panel</td>
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<td>2:15-2:45 p.m.</td>
<td>Career Trends &amp; Opportunities for the 21st Century</td>
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<tr>
<td>3:00-4:00 p.m.</td>
<td>Check-Out</td>
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* 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. A few of the sessions will be held either in July or August only. These are noted with two asterisks (**) at the end of the description. All sessions are designed for students with little or no prior knowledge of the career area. Try something new!

ART, DESIGN, & CRAFTS (Also see workshops 20, 24, 28, 49)

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

#2 Digital Studio
Students in the 3D digital graphics program will learn to 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. Students in this session will get a glimpse of how 3D Digital Graphics combines basic art skills and technology.

#3 Fine Arts
Whether through painting, printmaking, sculpture or any of the 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 art encourages 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 a brief 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 sure-fire techniques to show the world what’s in your imagination. Bring home your finished work, which family and friends are sure to admire. *Double Session

#6 Industrial Design in 3D
Expoze yourself to the dynamic area of product design. As an introduction to the profession of industrial design, learn how three-dimensional design concepts that incorporate color, shape, form, and human factors are used to create products such as toys, exhibits, shoes, tools, furniture, and other items for consumer use. A short project will take place during this session. *Double Session

#7 Interior Design
An introduction to the exciting profession of interior design that 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 therapist, and other allied health professional 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. In this session, students will complete an animation that will be saved on a CD for viewing on personal computer or via the web. *Double Session

#9 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 student 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, the students become highly skilled interactive designers, as well as employable graduates. *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 Work with Glass
In our well-equipped glass studio, participants 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 crafts person. Come and explore your creative potential! *Double Session

#12 Work with Metals
In this session, participants will discover some of the properties of metals using a variety of tools and techniques while working on a real piece. Begin developing your creative potential while exploring some of the many career options for metal workers, such as educator, jewelry designer, sales and marketing specialist, artisan, gem setter, or gallery manager! *Double Session

BUSINESS & MANAGEMENT (Also see workshops 25, 44, 50, 55, 61)

#13 Accounting: The Mysteries of Financial Reporting
Gain insight into the details of the accounting that supports financial reports available to the public. Discussions will also address "mark-to-market," pensions, leases and other topics especially relevant during the recent economic recession and the current recovery.

#14 Economics Comes Alive in Your Daily Life
How do markets yield technology standards? How does history influence the economy toward desirable outcomes? Why do so many industries begin with many firms but consolidate to just a few firms? Join us in a computer simulation of the economic dynamics involved in these types of questions, and for discussion of how these same forces appear in a wide range of industries.
** August only

#15 Finance: The Impact of the Recent Global Economic Crisis
The global recession and economic crisis that began in 2008 and the current recovery have left nearly everyone scratching their heads, from professionals to investors to governments. This workshop will help make sense of the causes, effects, and impacts of what people throughout the world have experienced. The implications for future careers in finance will also be discussed.
#16 Hospitality & Service Management: Super Resorts of Tomorrow
What will resorts look like in the future? Might robots be running them? Could GameBoy be a part of future business meetings? Or will virtual reality and holograms make hotels extinct? We want to know what you think. Dream up and draw your hotel of the future and participate in other hands-on activities at this fun and imaginative workshop.

#17 International Business: Issues in the New Global Economy
Join this interactive workshop to share and discuss how the world is changing on an almost-daily basis, and learn how this requires business leaders to develop new and creative ways to adapt.

#18 Management: Why are Creativity and Innovation Essential in Business?
A key to success in today's ever-changing business environment is 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.

#19 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. Search for your favorite brands, discuss how to (and how not to) sell across the Internet, and see how retailers promote their products online and track sales across various Web and social networking sites.

COMMUNICATIONS (Also see workshops 8, 9, 19, 43, 45)

#20 Be an Art Director for an 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

#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.

COMPUTING & INFORMATION SCIENCES (Also see workshops 2, 8, 9, 20, 33, 34, 35, 38, 41, 54, 63)

#22 Computer Science: Overview of Computing
Do you really know what computer science is all about? Do you stay up at night trying to figure out what computer science is or what a computer scientist does? Do you wonder about the courses that a CS student takes and how much homework they have to do? Do you know what a computing professional does to earn all of that money? Come to this session for answers.

#23 Cyber Security, Privacy and Data Protection
Have you ever wondered how secure your data is? Are passwords enough to protect your data? Are your instant messages and 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 without your knowledge and used. 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 the Networking & Systems Administration degree programs prepare you for these exciting careers. Our programs include but are not limited to learning how to identify computer and network security vulnerabilities, learning how to recognize and repel all types of attacks, and understanding the forensic requirements to prove that an attack occurred, where it originated, and the extent of the damage the attack caused. Join us!
#24 Game Design & Development: What Does It Take for a Career in Gaming?
This session provides an overview of careers in Game Design & Development, requirements for a Bachelors of Science in Game Design & Development, and the academic preparation requirements. Guests will get hands-on experience with games and virtual worlds created by current and former students while in residence at RIT, 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.

#25 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 influence 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.

#26 Information Sciences and Technologies: Careers for the 21st Century
Do you want a career where you can use the incredible power of computers to make the world a better place? Then 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. We’ll show you some cool mobile phone and iPad apps developed by our students, and other creative student work as well. What you can accomplish with information technology will be limited only by your imagination!

#27 Medical Informatics: The Application of Computing to Medical Practice
The nation is looking to information technology professionals to help improve the effectiveness and efficiency of our healthcare system. Medical Informatics is the field that studies ways of applying computing technology to the delivery of medical services. Our program in Medical Informatics provides three tracks that differ in the balance between computing courses and science courses. Two of these tracks are based on coursework in information technology or in computer science, as well as in the sciences. The third track, premedical, includes fewer computing courses and additional coursework in the sciences. The premedical track is designed to prepare students for applying to medical, veterinary or dental school. In this session, you will have an opportunity to learn about this new and growing field, and you also will participate in some anatomy explorations using a computer program called ADAM.

#28 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. In this session, you will have an opportunity to explore websites and online multi-user games and simulations made by our New Media students.

#29 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 computer gaming, 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. In this session, you will explore the world of software engineering and be given a hands-on introduction to the concepts in the field.

ENGINEERING & ENGINEERING TECHNOLOGY
(Also see workshops 29, 57, 59, 60, 61, 65)

#30 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 contributing members of multidisciplinary teams that develop new products and services in support of health care to restore, sustain, and enhance the health and well-being of individuals. In this session you will see what technology can do for medical practice and learn about the kinds of jobs biomedical engineers do in their chosen profession.
#31 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.

#32 Civil Engineering Technology: Making a Difference in Our World
Civil Engineering Technology graduates restore polluted rivers as well as century-old bridges, design public parks accessible to people with disabilities, build roads in isolated areas and water delivery systems…you name it! Learn about the exciting types of jobs available in the civil disciplines and get your hands dirty while learning about the materials and tools that we use.

#33 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.

#34 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. This session will explore the many exciting and challenging career opportunities available for computer engineering technology graduates and will include a laboratory project.

#35 Electrical Engineering: Electronics, Computers, 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. We will give you a glimpse of electrical engineering in laboratories where you will view and manipulate images, use fuzzy-logic controllers, learn how “sighted robots” work, measure electrical signals of the human body, and examine how electronics is applied to solve everyday problems.

#36 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, an EET 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 and learn about the multitude of exciting and rewarding career opportunities available to the graduates of the Electrical Engineering Technology program.

#37 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 the ISE labs, 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.
#38 Manufacturing Engineering Technology: Real-life Robots
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. In this workshop, 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, students operate automated equipment used to produce circuit boards, like those used in cell phones, DVD’s, computers, and more.

#39 Mechanical Engineering Technology: Vehicle Design
Designing a car, truck, motorcycle or bicycle isn’t just about how it look’s, 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, custom fitting a bicycle to its user) and think of new ways to enhance a vehicle’s design and performance.

#40 Mechanical Engineering: We Design the Future
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. Join us to see how Mechanical Engineers at RIT are working to make advances in the field that will reshape the future!

#41 Microelectronic Engineering: The Amazing Microchip
The world as we know it would not exist without the microchip…the Internet, computers, cell phones, electronic cars, appliances, and robotics all rely on it. Integrated circuit technology has made possible the development of microelectromechanical devices and systems, and 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.

#42 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.

#43 Telecommunications Engineering Technology: Go for the triple play!
You can communicate with your friends and family wherever they are. You can access information from millions of sites on the Web. Watch a soccer game taking place halfway around the globe. Musicians can collaborate and record a studio session in Real Time without being in the same time zone. Why? Because of telecommunication technology! Modern telecommunication systems make voice, data and video services available worldwide and you can be part of the future of this exciting field. You may design an optical transmission system to move data at the speed of light, a global network to interconnect the continents or a new communication device with capabilities that we cannot even imagine today. The TET session will provide a glimpse of today’s technology and start you thinking about tomorrow’s.

ENVIRONMENTAL STUDIES (Also see workshop 31, 42)

#44 Environmental Sustainability Health & Safety: All Dressed Up and Nothing Will Grow
Come try on a Level-A Emergency Responder Hazardous Materials Suit. If you like science, want to save the world, and would like to earn a great salary while you do it, this is the major for you. Graduates from RIT’s Environmental Sustainability program have gotten jobs at Cornell and Harvard universities, Disney, Blue Man Group, Kraft Foods, Anheuser-Busch, Caterpillar, Corning Inc, the EPA, OSHA, and Everglades National Park, among others. Learn how they protect workers from hazardous chemicals in the workplace, protect citizens from chemical pollutants, promote sustainability, and how you can use your passion for science or working outdoors to create a more sustainable future.
PHOTOGRAPHY & FILM

#45 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. Come visit and explore this inner world, bursting with 3D shape and color, awaiting your detection. In this session you will use both video and photographic techniques to create your own work.

#46 Digital Cinema: 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!

#47 So You Want To Be A Star!
Ever wondered what it would be like to appear on a magazine cover? This is your chance! Join this two hour session and explore the tricks of photo retouching just like a professional. Students will use Photoshop techniques to change, highlight and enhance their own portrait. At the end of the session, you will have a portrait ready for the cover of a glamour or rock n’ roll magazine. So be a star! You can do it! *Double Session

SOCIAL SCIENCES  (Also see workshop 14)

#48 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.

#49 Cultural Resource 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 one can pursue. The Cultural Resource Studies program gives you the knowledge, experience, and skills you will need to enter this rich and creative field.

#50 International Studies: Become a Global Expert
What happens when western and non-western worlds collide through trade war, technology, and media? How does the expanding world capitalist system transform local and national cultures, identities, customs, and beliefs? What happens when new communication technologies, the Hollywood media, corporate enterprise, and the culture of consumption spread to the most remote corners of the globe? Come to this workshop to find out how this major develops exciting career opportunities through professional work experience, experience abroad, enhancing language skills, and by coursework focusing on globalization, world regions, and research methods in international studies.
Perhaps you are a philosopher. So, perhaps, is everyone else, at least sometimes and to some extent. What, though, is philosophy? One traditional answer, going back to the origin of the word in ancient Greece more than 2500 years ago, was that philosophy is the love of wisdom. Another answer 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? How free are we, really? 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. Come to the philosophy workshop to meet living, breathing philosophers. Find out what they do, how they do it, why they do it, and learn a bit about our philosophy degree program.

Biotechnology regulation poses a problem for liberal democratic societies in two ways. First, biotechnology has the potential to transform human nature, thus destabilizing the foundation on which liberal democracies are based. Second, liberal democracies are hindered by the technological complexity of biotechnological problems and the fact that potential risks are often too far in the future to be seen as serious problems. This brief talk will consider the ways of approaching biotechnology policy that are compatible with the spirit and procedures of liberal democratic decision making. **August Only**

Modern science was originally conceived as a project to give a comprehensive account of human life for the sake of its transformation for the better. More than any other science today, neuroscience embodies this ambition claiming to render transparent the totality of human affairs. However, despite these grand claims, neuroscience seems to struggle to adequately explain basic human activities like the exercise of good prudential judgment, the political virtue /par excellence/. This brief lecture will discuss what a full account of political and moral judgment would entail and the ways in which neuroscience is incapable of providing such an account. **July Only**

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. Join us and learn about various careers in Psychology and the college requirements for them.

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. In this workshop, you will learn about the skills needed for a successful career in public policy. **July only**

Eighty percent of United States residents work, learn, and raise families in metropolitan areas. Cities are not only bricks and mortar; they are people’s lives and rest on historical and cultural traditions. How do you rebuild a city like New Orleans after the destruction of Hurricane Katrina? What about Ground Zero in New York City, where the Towers used to stand? What should we put in that place to create hope and optimism, while at the same time commemorating those we lost? With that in mind, RIT’s Urban and Community Studies program is designed to give you the knowledge, experience and technological skills you’ll need to address the issues facing our rapidly urbanizing world.
SCIENCE, MATHEMATICS & MEDICAL SCIENCES
(Also see workshops 8, 27, 30, 45, 54)

#57 Bioinformatics: Enabling Discovery
Bioinformatics addresses the needs of the modern biologist by combining the skills of biological and computational scientists. A rapidly growing field within biotechnology, it encompasses many disciplines including biochemistry, computer science, information technology, statistics and others. An example of its application is in harvesting information from the Human Genome Project, thereby providing a deeper understanding of human disease and leading to the development of new therapies. **August Only**

#58 Chemistry: The Wonders of Chemistry
Chemistry, imagination, and the world around us. Visit our “Careers in Chemistry” to gain a new appreciation for everything we encounter each day. 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.

#59 Imaging Science: 3-D Imaging
What do a digital camera, an ultrasound machine, a hyperspectral sensor, and the Hubble Space Telescope have in common? They’re all examples of modern imaging systems. Imaging systems are becoming more and more important in business, in education, in scientific research, and in our daily lives. In this session, you’ll learn the secrets of 3D imaging by creating your own 3D image in our laboratories. It’s an experience you’ll never forget.

#60 Imaging Science: Big Bang and Black Holes
Join us for this hands-on session and explore the mysteries of the cosmos! 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!

#61 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 then 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. Of course, one of these two doors has the new car behind it while the other door conceals another goat. 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? Should you keep the door you originally chose, or should you switch and choose the other door instead? In this talk we use simple probabilities to answer this question. You may be surprised by the result!

#62 Medical Ultrasound
We know you are thinking about finding your ideal major and college. 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! Join us and 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?
#63 Physics of Sound and Hearing
What do cables, the hydrophobic effect, Coulomb's law, helical twists, and swimming fish have to do with sound? Find out more about the fantastic, incredibly sensitive and adaptable way in which our ears convert sound to electrical signals. We will also explore sound wave forms, and give sound a ride on a beam of light. **July only**

#64 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 at RIT. 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**

#65 Solar Energy and Nanomaterials
We will explore the quantum mechanical behavior of materials on the nanoscale. As the size of a material is reduced to the nanoscale or nanometer dimension (i.e., a billionth of a meter), their optical, electrical and even mechanical behavior start to vary from that of their bulk counterparts. At these very small dimensions, these nanoscale materials, or so-called nanomaterials, exhibit size-dependent materials properties. We will explore a couple of examples of nanomaterials that are currently being used in a variety of different technological applications, characterize some carbon nanotubes, and semiconducting quantum dots. **August only**

**UNDECIDED & MORE**

#66 Don’t know what to do in College?
So many interests….so many options….. Having trouble narrowing down your choice of college major? RIT has many majors and you have the opportunity to enter the RIT University Studies program now, and make your decision about a major later. The University Studies Program allows students, with a variety of interests, to take foundational courses and use career assessment tools to make the best decision possible about their major of study. The workshop today is a fun and interactive way to begin the major selection process. Come learn about your interests and how to match these with a variety of RIT programs.

#67 Air Force ROTC: Air Force Information Session
Are you looking for a career with a bright future? The Air Force offers you many great opportunities and AFROTC can make them a reality. One of the many benefits of ROTC is the chance to compete for 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 an Air Force officer. . . Bring your questions, we will have the answers. Come and learn what AFROTC is all about and what it takes to be an officer in the United States Air Force.

#68 Army ROTC: Tiger Battalion
The Army ROTC program has a long and proud tradition of turning motivated and committed students into outstanding leaders. No matter what career path you choose, leadership will be an essential ingredient to your success. Army ROTC can help you achieve your goals by providing scholarships for your education costs, books and monthly pay. Come hear 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 (Building 24). 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 phone 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 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, Watkins Glen International Racetrack).
REGISTRATION INFORMATION:

**PROGRAM I:** July 23-24  
**REGISTRATION DEADLINE:** July 16

**PROGRAM II:** August 6-7  
**REGISTRATION DEADLINE:** July 30

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

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

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

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

**REGISTRATION FEE:** (please make checks payable to: RIT)  
$135 – Two-day program, meals, and overnight accommodations

$125 – Two-day program and meals only (without overnight stay)

**ADDITIONAL FEES FOR FAMILY:**  
$7.75 per person pre-purchased -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 (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 23-24  ☐ Program II: August 6-7

Check One:

☐ I plan to spend the night on campus. Enclosed is my check for $135, signed Behavior Contract, and signed Waiver of Liability/Medical Permission Form.

☐ I do not plan to stay overnight. Enclosed is my check for $125, signed Behavior Contract, and signed Waiver of Liability/Medical Permission Form.

Student Name: ________________________________

Date of Birth: _______________  Male ☐  Female ☐

Address: __________________________________________________________________________
                                                              __________________________________________________________________________

Phone: ( _____ ) ________________________________

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 $7.75 per person. (Note: Student participants’ meals are included in the registration fee).
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 the College & Careers (hereafter referred to as “activity”) occurring on ______________________, 2010. 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

Parent email

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