

**SELECTED TEACHING SPECIALTIES AND RESEARCH  
INTERESTS FOR BUSINESS AND INDUSTRY  
Penn State Behrend Faculty**

- [Accounting](#)
- [Biology](#)
- [Chemistry](#)
- [Computer Science](#)
- [Economics](#)
- [Electrical, Computer, and Software Engineering](#)
- [Electrical Engineering Technology](#)
- [Finance](#)
- [Geology](#)
- [Management](#)
- [Management Information Systems](#)
- [Marketing](#)
- [Mathematics](#)
- [Mechanical Engineering](#)
- [Mechanical Engineering Technology](#)
- [Physics](#)
- [Plastics Engineering Technology](#)
- [Psychology](#)

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To search this document -

**To find a word using the Find command:**

- 1 Click the Find button on the toolbar (the binoculars).
- 2 Enter the text to find in the text box.
- 3 Select search options if necessary:
  - Match Whole Word Only finds only occurrences of the complete word you enter in the text box. For example, if you search for the word *stick*, the words *tick* and *sticky* will not be highlighted.
  - Match Case finds only words that contain exactly the same capitalization you enter in the text box.
  - Find Backwards starts the search from the current page and goes backward through the document.
  - Ignore Asian Character Width finds only those Kana characters that exactly match the text you enter.
- 4 Click Find. Acrobat finds the first occurrence of the word.

**To find the next occurrence of the word:**

Click on the “Find Again” button on the toolbar (binoculars with arrow).

## ACCOUNTING

- CHARLES BROWN  
Ph.D. Accounting – Kent State University  
*Teaching Specialties/Research Interests:* Financial and managerial accounting, cost accounting, cost management auditing, auditor decision making, market-based prediction forecasting, applied managerial/cost accounting studies
- CARY CHLUDZINSKI  
M.S. Accounting – Duquesne University  
*Teaching Specialties/Research Interests:* Financial and managerial accounting, financial statement analysis, accounting information systems
- ASHUTOSH DESHMUKH  
Ph.D. Accounting – University of Memphis  
*Teaching Specialties/Research Interests:* Auditing and accounting information systems
- DAVID DORAN  
Ph.D. Accounting – University of Pittsburgh  
*Teaching Specialties/Research Interests:* Financial accounting and managerial/cost accounting, market-based research studies and analysis of analysts' earnings forecast accuracy, applied managerial/cost accounting research
- LINDA HAJEC  
M.B.A. – Duquesne University  
*Teaching Specialties/Research Interests:* Accounting, supply chain, warehousing, enterprise resource system, systems and documentation
- ROBERT PATTERSON  
M.B.A. – Penn State University  
*Teaching Specialties/Research Interests:* Accounting, quantitative business analysis, finance
- JAMES VOSS  
M.B.A. Accounting and Finance – University of Pittsburgh  
*Teaching Specialties/Research Interests:* Financial and managerial accounting, corporation finance, accounting control systems in industry

## BIOLOGY

- PAUL BARNEY JR.  
Ph.D. Plant Physiology – University of Kentucky  
*Teaching Specialties:* First-year biology, protein structure and function, biochemistry, botany  
*Research Interests:* Curation of the Arboretum at Penn State Behrend, bioinformatics, biochemistry of plants
- MICHAEL CAMPBELL  
Ph.D. Plant Physiology – Rutgers University  
*Teaching Specialties:* Cell and molecular biology, biology of vascular plants  
*Research Interests:* Woody plant physiology, plant metabolism, genetic modification of plants, molecular biology, bioinformatics
- TIA DEAS  
Ph.D. Biomedical Sciences – State University of New York at Albany  
*Teaching Specialties:* Introductory biology, molecular and cellular biology, immunology, virology, biotechnical methods, human anatomy, and physiology  
*Research Interests:* RNA virus replication schemes including viral packaging and recombination, RNA viruses, influenza virus, severe acute respiratory syndrome (SARS) virus
- AMY ERICKSON, Biology Lab Coordinator  
B.S. Biology – Penn State Erie, The Behrend College  
*Teaching Specialties:* Biology
- CHRISTOPHER GEE  
Ph.D. Plant Pathology and Plant-Microbe Biology – Cornell University  
*Teaching Specialties:* Microbial ecology, mycology, genomics, proteomics, and metabolomics  
*Research Interests:* Gene expression of grapevine in response to fungal pathogen attack and fungicide resistance in grapevine pathogens of the Lake Erie region
- MATTHEW GRUWELL  
Ph.D. Entomology/Organismic and Evolutionary Biology –University of Massachusetts  
*Teaching Specialties:* Evolutionary biology, genetics, invertebrate zoology, entomology  
*Research Interests:* Phylogenetics of insects and endosymbiotic bacteria, understanding the diversity of bacteria living in insects with limited diets such as plant- and blood-feeding insects
- CARLEY GWIN  
M.S. Biology – State University of New York at Fredonia  
*Teaching Specialties:* Biology 110, cell lab, non-majors  
*Research Interests:* Biology outreach

- LISA MANGEL  
M.S. Biology – Edinboro University of Pennsylvania  
*Teaching Specialties:* Anatomy and physiology, human biology  
*Research Interests:* Acquisition and distribution of science information at the preschool, elementary, secondary, and college level; distance education; skeletal analysis; online dissections
- EDWIN MASTELLER (Emeritus)  
Ph.D. Entomology – Iowa State University  
*Research Interests:* Invertebrates of Presque Isle, Pennsylvania, monarch butterflies, mayflies of Lake Erie, native mussels of the Pennsylvania Region of Lake Erie, Trichoptera and Plecoptera of Pennsylvania Web site, Max Zellar at the Erie Zoo
- BETH POTTER  
Ph.D. Molecular Virology and Microbiology – University of Pittsburgh  
*Teaching Interests:* Microbiology, immunology, bacterial pathogenesis  
*Research Interests:* Apical surface of polarized epithelial cells as effective barrier to bacterial and viral infection
- PAMELA SILVER  
Ph.D. Biology – University of South Florida  
*Teaching Specialties:* Ecology, limnology, experimental design  
*Research Interests:* Freshwater ecology, aquatic insects, theoretical ecology, biostatistics
- MARGARET VOSS  
Ph.D. Biology – Syracuse University  
*Teaching Specialties:* Behavioral ecology, comparative anatomy, evolutionary biology  
*Research Interests:* Comparative behavior and physiology; behavioral regulation of physiological processes; foraging theory; optimality modeling; mathematical models of ecological risks, costs, and benefits
- JAMES WARREN JR.  
Ph.D. Microbiology – Clemson University  
*Teaching Specialties:* Introductory biology, biochemistry, upper-level animal developmental biology  
*Research Interests:* Molecular mechanisms of vertebrate development using the zebrafish as a model system, identification of molecules that regulate vertebrate development, developing technologies to manipulate gene expression in zebrafish

## CHEMISTRY

- JAY AMICANGELO  
Ph.D. Physical Chemistry – University of Vermont  
*Teaching Specialties:* Physical chemistry, general chemistry  
*Research Interests:* Spectroscopy, matrix isolation, chemical vapor deposition intermediates
- LUCIANA ARONNE  
M.S. Analytical Chemistry – Wayne State University  
*Teaching Specialties:* General chemistry, analytical chemistry  
*Research Interests:* Pedagogical
- JASON BENNETT  
Ph.D. Analytical Chemistry – Michigan State University  
*Teaching Specialties:* Analytical chemistry  
*Research Interests:* Developing electrocatalysts to improve selectivity, lifetime of electrochemical sensors
- ADRIENNE CARVER  
Ph.D. Chemistry –University of Massachusetts at Amherst  
*Teaching Specialties:* Physical inorganic chemistry  
*Research Interests:* Interactions between gold nanoparticles and metalloenzymes
- TRACY HALMI  
M.A. Chemistry – The University of North Carolina at Chapel Hill  
*Teaching Specialties:* General and organic chemistry  
*Research Interests:* Chemical education, inorganic chemistry
- JENNIFER HOLT  
Ph.D. Physical Chemistry – University of Michigan  
*Teaching Specialties:* Physical chemistry  
*Research Interests:* Physical chemistry, host-guest chemistry
- ALAN JIRCITANO  
Ph.D. Inorganic Chemistry – University of Kansas  
*Teaching Specialties:* General chemistry, inorganic chemistry, x-ray crystallography  
*Research Interests:* Bioinorganic chemistry, structural chemistry, novel biometric transition metal complexes
- MICHAEL JUSTIK  
Ph.D. Organic Chemistry – University of Akron  
*Teaching Specialties:* Organic chemistry, spectroscopy  
*Research Interests:* Chemistry of organic hypervalent iodine compounds, solid-phase organic synthesis, oxidation chemistry

- MARTIN KOCIOLEK  
Ph.D. Organic Chemistry – University of New Hampshire  
*Teaching Specialties:* Organic chemistry, biochemistry  
*Research Interests:* Organic methodology and synthesis of natural products,  
computational analysis of organic reaction mechanisms

## COMPUTER SCIENCE

- CHARLES BURCHARD  
M.S. Computer Science – Penn State University  
*Teaching Specialties:* Data structures and algorithms, object-orientation, Java and C++ programming languages  
*Research Interests:* Computer science education, Java technology, textbook writing
- RONALD DELPORTO  
M.B.A. Organizational Behavior – Gannon University  
*Teaching Specialties:* Systems analysis, networking, C++, Web page design, Excel, Visual Basic  
*Research Interests:* Computer science, simulation
- GEORGE DUDAS JR.  
M.B.A. – Gannon University  
*Teaching Specialties:* Telecommunications, network management, Excel, Visual Basic  
*Research Interests:* Computer networks, databases, computer-aided learning
- RONALD McCARTY  
M.S. Biometry and Health Information Systems – University of Minnesota  
*Teaching Specialties:* C++, system architecture  
*Research Interests:* Digital and film photography, scientific visualization
- MENG SU  
Ph.D. Mathematics – Southern Illinois University at Carbondale  
*Teaching Specialties:* Data structure, algorithms, system software architecture  
*Research Interests:* Data mining algorithms, high dimensional information retrieval, nonlinear analysis, numerical analysis
- GARY WALKER  
M.S. Computer Science – West Coast University  
*Teaching Specialties:* Computer science for business, data structures, programming languages and processes  
*Research Interests:* Applied computer science, networked computing, enterprise information systems infrastructure, enterprise operations

## ECONOMICS

- JOHN FIZEL  
Ph.D. Economics – Michigan State University  
*Teaching Specialties/Research Interests:* Applied microeconomic analysis, industrial organization and behavior, managerial economics, econometrics, regulation and antitrust, managerial decision making, sports economics
- KERRY KING  
Ph.D. Economics – West Virginia University  
*Teaching Specialties/Research Interests:* Public economics, urban and regional economics, applied microeconomics, the economics of education
- JAMES KURRE  
Ph.D. Economics – Wayne State University  
*Teaching Specialties/Research Interests:* Regional economics, economic development, microeconomics, philanthropy
- KENNETH LOUIE  
Ph.D. Economics – University of Illinois  
*Teaching Specialties/Research Interests:* International trade and finance, labor economics, economic development
- EDWARD MISETA  
M.B.A – Penn State University  
*Teaching Specialties/Research Interests:* Microeconomics, labor economics, money and banking
- TODD NESBIT  
Ph.D. Economics - West Virginia University  
*Teaching Specialties/Research Interests:* Macroeconomics, business statistics, econometrics, business forecasting
- VAL VLAD  
Ph.D. Economics - Southern Illinois University at Carbondale  
*Teaching Specialties/Research Interests:* Development economics, international finance, international trade, environmental economics, managerial economics

## **ELECTRICAL, COMPUTER, AND SOFTWARE ENGINEERING**

- CHRIS COULSTON  
Ph.D. Computer Science and Engineering – Penn State University  
*Teaching Specialties:* Digital design, computer architecture, embedded systems, FPGA synthesis, PCB design and fabrication  
*Research Interests:* Computer networks, optimization, Steiner Tree algorithms
- VIBHUTI DAVE  
Ph.D. Computer Engineering – Illinois Institute of Technology  
*Teaching Specialties:* VLSI systems and design, computer architecture  
*Research Interests:* Computer arithmetic, computer organization, application-specific integrated circuits (ASIC) design
- XIAOCONG (SIMON) FAN  
Ph.D. Software Engineering – Nanjing University  
*Teaching Specialties:* Software engineering, object-oriented methodology, principles of programming languages, artificial intelligence  
*Research Interests:* Multi-agent systems, human-centric computing, cognitive modeling, machine learning, agent-oriented software engineering
- RALPH FORD  
Ph.D. Electrical Engineering – University of Arizona  
*Teaching Specialties:* Engineering design, computer vision, digital signal processing, microelectronics, software engineering  
*Research Interests:* Digital signal processing, digital image processing, pattern recognition, computer vision
- SHOULING HE  
Ph.D. Electrical Engineering – University of Erlangen-Nuremberg  
*Teaching Specialties:* Microprocessor and embedded systems, computer architecture, digital systems, neural networks  
*Research Interests:* Neural computation and applications, process control
- THOMAS HEMMINGER  
Ph.D. Electrical Engineering – Case Western Reserve University  
*Teaching Specialties:* Linear circuits, communication systems, electromagnetics, engineering design  
*Research Interests:* Neural networks, pattern recognition, neural control, signal processing
- KATHLEEN MUHONEN  
Ph.D. Electrical Engineering – Penn State University  
*Teaching Specialties:* Microwave and wireless engineering; microelectronics, VLSI  
*Research Interests:* RF on-chip ESD protection design and test, linearization techniques for power amplifiers, RF and microwave power amplifier design, short-pulsed testing methods (pulsed IV and TLP)

- SUDARSHAN NELATURY  
Ph.D. Electronics and Communications Engineering – Osmania University  
*Teaching Specialties:* Electromagnetics, signals and systems, digital signal processing, electric circuit analysis, numerical methods in electromagnetics  
*Research Interests:* Blind channel equalization, time-frequency signal analysis, fast DSP algorithms, EM wave propagation in metamaterials, optimization by genetic and evolutionary programming
- WEN-LI WANG  
Ph.D. Computer Science – State University of New York at Albany  
*Teaching Specialties:* Object-oriented design, software engineering principles, test and verification  
*Research Interests:* Software architecture, software dependability, object-oriented design, impact analysis, mobile computing

## **ELECTRICAL AND COMPUTER ENGINEERING TECHNOLOGY**

- **RONALD KRAHE**  
M.S. Electrical Engineering – Gannon University  
*Teaching Specialties:* Computer programming and embedded controls, electricity and electronics, computer vision  
*Research Interests:* Mechatronics, embedded controls, sensors and signal processing
- **ROGER KUNTZ**  
B.S. Electrical Engineering – Penn State University  
*Teaching Specialties:* Electrical engineering technology  
*Research Interests:* Motors, controls, process lines motor variable speed control
- **DAVID LOKER**  
M.S. Electrical Engineering – Syracuse University  
*Teaching Specialties:* Communications systems, measurements and instrumentation systems  
*Research Interests:* Telecommunications, wireless communications, radar systems
- **RALPH SPRANG**  
M.S. Electrical Engineering – The Johns Hopkins University  
*Teaching Specialties:* Computer architecture and programming, digital design, embedded systems, and programmable logic  
*Research Interests:* High speed digital systems, face recognition, computer architecture
- **ROBERT WEISSBACH**  
Ph.D. Electrical Engineering – Arizona State University  
*Teaching Specialties:* Power electronics, control systems, linear system theory, product development, entrepreneurship  
*Research Interests:* Power electronics and controls, flywheel energy storage systems, power systems, entrepreneurship

## **FINANCE**

- **BRIAN BOSCALJON**  
Ph.D. Finance – Texas Tech University  
*Teaching Specialties/Research Interests:* Investments, corporate finance, markets and institutions, international finance, managerial finance
- **M. GREG FILBECK**  
DBA, FRM, PRM Finance – University of Kentucky  
*Teaching Specialties/Research Interests:* Investments, portfolio theory, corporate finance
- **KAY JOHNSON**  
M.S. – College for Financial Planning  
*Teaching Specialties/Research Interests:* Financial markets, personal financial planning, business retirement planning, corporate finance
- **XIN (JESSICA) ZHAO**  
Ph.D. Finance – State University of New York at Buffalo  
*Teaching Specialties/Research Interests:* Market microstructure, IPOs, corporate governance, corporate finance, case studies, investment

## **GEOLOGY**

- ANTHONY FOYLE  
Ph.D. Oceanography – Old Dominion University  
*Teaching Specialties:* Earth science, coastal geology, oceanography, environmental geology  
*Research Interests:* Coastal geology, sequence stratigraphy, environmental geophysics
- MICHAEL NABER  
Ph.D. Geography – North Carolina State University  
*Teaching Specialties:* Geology, geography, geographic information science, global positioning systems  
*Research Interests:* Integrating the use of social science data and environmental quality data in the management and preservation of natural resources

## MANAGEMENT

- MARK BESTOSO  
M.B.A. Human Resource and Marketing Management – Penn State University  
*Teaching Specialties/Research Interests:* Social, legal, and ethical environment of business, corporate philanthropy
- MICHAEL BROWN  
Ph.D. Management and Organization – Penn State University  
*Teaching Specialties/Research Interests:* Ethics, organizational behavior, leadership, ethical leadership
- RANDY BROWN  
M.A. College Student Personnel – State University of New York at Buffalo  
*Teaching Specialties/Research Interests:* Cross-functional work teams, healthcare work teams, functional and business-level strategy, business simulations
- OZGUN CALISKAN DEMIRAG  
Ph.D. Industrial and Systems Engineering – Georgia Institute of Technology  
*Teaching Specialties/Research Interests:* Supply chain management, revenue and promotions management in the operations and marketing interface, applications of game theory, design and analysis of transportation and logistics systems, management of decentralized logistics and business systems
- MICHAEL CHUANG  
Ph. D. Business Administration – University of Illinois at Urbana Champaign  
*Teaching Specialties/Research Interests:* Decision making; crisis and risk management; social, cognitive, behavioral issues of information; communication technology and systems; project management and organizations
- FRANK DeWOLF  
M.B.A. – Gannon University  
*Teaching Specialties/Research Interests:* Electronic commerce, operations management, information systems
- DAVID DIETEMAN  
M.A. Philosophy – University of Illinois at Urbana-Champaign  
*Teaching Specialties/Research Interests:* Social, legal, and ethical environment of business; political philosophy of Friedrich Hayek and the Austrian School; Thomistic philosophy of law; ethics in the Western and Eastern traditions
- JAMES FAIRBANK  
Ph.D. Management and Organization – Penn State University  
*Teaching Specialties/Research Interests:* Strategic management, entrepreneurship

- ERIC JACKSON  
Ph.D. Operations Management – Michigan State University  
*Teaching Specialties/Research Interests:* SCM, project management, complex dynamic systems
- WILLIAM JOHNSON  
Ph.D. Management-Operations and Strategy – York University  
*Teaching Specialties/Research Interests:* Innovation, strategy, international management
- SANJAY KUMAR  
M.S. Supply Chain Management – University of Texas at Dallas  
*Teaching Specialties/Research Interests:* Risk management in supply chains, simulation-optimization, metaheuristics methods for supply chain applications, scheduling of large-scale systems
- JOHN MAGENAU  
Ph.D. Psychology – State University of New York at Buffalo  
*Teaching Specialties/Research Interests:* Labor-management relations and negotiation
- DIANE PARENTE  
Ph.D. Management Systems – State University of New York at Buffalo  
*Teaching Specialties/Research Interests:* Strategic management, international business, functional and business-level strategy, business simulations
- JEFFREY PINTO  
Ph.D. Organization Theory – University of Pittsburgh  
*Teaching Specialties/Research Interests:* Project management, organizational behavior, organization theory, information system implementation, power and political processes in organizations, diffusion of innovations
- CAROL PUTMAN  
M.B.A. – Penn State University  
*Teaching Specialties/Research Interests:* Project management, statistics for business decisions, operations
- MARGARET THOMS  
Ph.D. Organizational Behavior – Ohio State University  
*Teaching Specialties/Research Interests:* Leadership, organizational vision, leadership development, self-managed work teams, and human resources management
- RAY VENKATARAMAN  
Ph.D. POM/Management Science – Illinois Institute of Technology  
*Teaching Specialties/Research Interests:* Operations planning and control, supply chain management, operations strategy, statistics

- ALFRED WARNER  
Ph.D. Strategy – Ohio State University  
*Teaching Specialties/Research Interests:* Business policy and strategy,  
innovation management, effect of innovation on firm competitiveness,  
technology sourcing and governance choices

## MANAGEMENT INFORMATION SYSTEMS

- IDO MILLET  
Ph.D. Information Systems – University of Pennsylvania  
*Teaching Specialties/Research Interests:* Multi-criteria decision-making, online procurement auctions, reporting systems, systems analysis, advanced applications development
- ROBERT NELSON  
M.E. Education – Edinboro State University  
*Teaching Specialties/Research Interests:* Computer science and management information systems
- KATHLEEN NOCE  
D.Ed. Education Leadership and Management – Indiana University of Pennsylvania  
*Teaching Specialties/Research Interests:* Internet issues related to marketing, social concerns and e-commerce, information systems and technological leadership
- MATTHEW SWINARSKI  
Ph.D. Management – State University of New York at Buffalo  
*Teaching Specialties/Research Interests:* Information systems outsourcing, IT services delivery capabilities, database management systems, IS strategy and IT management
- JANICE TOTLEBEN  
M.B.A. – Gannon University  
*Teaching Specialties/Research Interests:* Computer science and management information systems
- JEROD WILKERSON  
Ph.D. Management – University of Arizona  
*Teaching Specialties/Research Interests:* Software engineering, software development methodologies, software design patterns, system architecture, object-oriented analysis and design, programming languages, project management, business intelligence, heuristic search algorithms

## MARKETING

- S. SAAD ANDALEEB  
Ph.D. Marketing – University of Illinois at Urbana-Champaign  
*Teaching Specialties/Research Interests:* Marketing management and strategy, marketing research methods, management of marketing channels and physical distribution, international marketing and business strategy, inter-organizational exchange behavior, social marketing
- PELIN BICEN  
Ph.D. Marketing – Texas Tech University  
*Teaching Specialties/Research Interests:* Marketing research, international marketing, business-to-business marketing, new product development, marketing theory, integrated marketing communications (IMC), macro marketing, marketing strategy, intra- and inter-organizational innovation, theories of competition, marketing pedagogy
- DAVID CAUSGROVE  
M.B.A. – Suffolk University  
*Teaching Specialties/Research Interests:* Principles of marketing, personal selling, sales management
- PHYLIS MANSFIELD  
Ph.D. Marketing – The University of Memphis  
*Teaching Specialties/Research Interests:* Consumer complaint resolution, service quality, social issues and ethics in marketing
- MARY BETH PINTO  
Ph.D. Marketing – University of Pittsburgh  
*Teaching Specialties/Research Interests:* Consumer behavior, credit card usage among college-age consumers, healthcare and pharmaceutical marketing, advertising

## MATHEMATICS

- PAUL BECKER  
Ph.D. Mathematics – Central Michigan University  
*Teaching Specialties:* Combinatorics and math education  
*Research Interests:* Algebraic combinatorics (difference sets, coding theory)
- PAPIYA BHATTACHARJEE  
Ph.D. Pure Mathematics – Bowling Green State University  
*Teaching Specialties:* Calculus, algebra, linear algebra, pure analysis, complex analysis, and topology  
*Research Interests:* Frame theory, ordered algebra, topology, and rings of continuous functions
- TERRY BLAKNEY  
M.A. Mathematics – University of South Florida  
*Teaching Specialties:* Statistics, Six Sigma methodology  
*Research Interests:* Statistics applications in sports
- ANTONELLA CUPILLARI  
Ph.D. Mathematics – State University of New York at Albany  
*Teaching Specialties:* History of math  
*Research Interests:* European math history, mathematics education
- DAVID FALVO  
M.Ed. Mathematics – Penn State University  
*Teaching Specialties:* Pre-calculus, calculus  
*Research Interests:* Mathematics textbooks
- DANIEL GALIFFA  
Ph.D. Mathematics – University of Central Florida  
*Teaching Specialties:* Calculus sequence, differential equations, linear algebra, and analysis  
*Research Interests:* Orthogonal polynomials and special functions, numerical analysis, mathematical biology, and mathematics education
- J. ANDREW GEORGE  
M.S. Applied Mathematics – Purdue University  
*Teaching Specialties:* Calculus, math for elementary education  
*Research Interests:* Applied math, math education
- ROLAND LARSON  
Ph.D. General Topology – University of Colorado  
*Teaching Specialties:* Abstract algebra, topology  
*Research Interests:* Computer-aided graphics, textbook writing

- ANTONIO MASTROBERARDINO  
Ph.D. Mathematics – State University of New York at Buffalo  
*Teaching Specialties:* Differential equations, numerical analysis  
*Research Interests:* Mathematical modeling, asymptotic and perturbation methods, free boundary problems
- COURTNEY NAGLE  
M.A. Pure Mathematics – Bowling Green State University  
*Teaching Specialties:* Calculus  
*Research Interests:* Mathematics education
- GREGOR OLSAVSKY  
M.A. Mathematics – University of Pittsburgh  
*Teaching Specialties:* Linear algebra, differential equations  
*Research Interests:* Matrix groups, differential equations
- PAUL OLSON  
M.S. Mathematics – University of Montana  
*Teaching Specialties:* Combinatorics, graph theory  
*Research Interests:* Combinatorial game theory, graph theory
- BOON WEE (AMOS) ONG  
Ph.D. Mathematics – University of Rochester  
*Teaching Specialties:* Calculus, algebra, topology  
*Research Interests:* Algebraic geometry, algebraic topology
- JOSEPH PAULLET  
Ph.D. Mathematics – University of Pittsburgh  
*Teaching Specialties:* Differential equations, mathematical modeling  
*Research Interests:* Ordinary differential equations, nonlinear boundary value problems, mathematical biology, nonlinear elasticity
- JOSEPH PREVITE  
Ph.D. Mathematics – University of Maryland  
*Teaching Specialties:* Topology, use of spreadsheets in the classroom, finite mathematics  
*Research Interests:* 58F-ordinary differential equations on manifolds, dynamical systems 53-differential geometry, 05C-graph theory, mathematical biology
- MICHELLE PREVITE  
Ph.D. Mathematics – University of Maryland  
*Teaching Specialties:* Geometry, topology, use of Maple in differential equations, multi-variable calculus  
*Research Interests:* 14P25-the topology of real algebraic sets, 57R-differential topology, 05C-graph theory

- MICHAEL RUTTER  
Ph.D. Fisheries – Michigan State University  
*Teaching Specialties:* Statistics, population modeling, simulation  
*Research Interests:* Statistics, fish population dynamics, mathematical biology
- JODIE STYERS  
M.S. Pure Mathematics – West Virginia University  
*Teaching Specialties:* Introductory level math and math for elementary education  
*Research Interests:* Algebraic topology
- BRADLEY VANHOOZER  
M.S. Mathematics – University of Akron  
*Teaching Specialties:* Calculus, prealgebra, algebra, trigonometry  
*Research Interests:* Math education, writing texts

## MECHANICAL ENGINEERING

- FADI ABU-FARHA  
Ph.D. – Mechanical Engineering – University of Kentucky  
*Teaching Specialties:* Engineering mechanics, manufacturing processes, machine design, materials  
*Research Interests:* Superplastic forming technique, analytical material modeling
- AMIR KHALILOLLAHI  
Ph.D. – Engineering Mechanics – Penn State University  
*Teaching Specialties:* Dynamics, strength of materials, fluid mechanics  
*Research Interests:* Computational thermal/fluid analysis, fluid/structural interactions, FEA, thermal/stress analysis in composites and electronic boards
- WILLIAM LASHER  
Ph.D. Mechanical Engineering – State University of New York at Buffalo  
*Teaching Specialties:* Engineering design, computer graphics, computer-aided design  
*Research Interests:* Naval architecture, marine hydrodynamics, marine hydrodynamics, sail design
- DEAN LEWIS  
M.S. Mechanical Engineering, Rensselaer Polytechnic Institute  
*Teaching Specialties:* Statics, dynamics, strengths of materials, engineering design, computer-aided engineering  
*Research Interests:* Assembly of plastic housings with attachment features, impact dynamics, engineering education
- DIPO ONIPEDE  
Ph.D. Civil Engineering – University of California, Los Angeles  
*Teaching Specialties:* Machine design, vibrations, numerical methods, strength of materials  
*Research Interests:* Structural vibrations, computational structural mechanics, smart materials, coupled field analysis
- JOHN ROTH  
Ph.D. Mechanical Engineering – Michigan Technological University  
*Teaching Specialties:* Manufacturing, materials, vibrations, adaptive signal processing  
*Research Interests:* Dynamics of manufacturing processes, system modeling and analysis, signal processing techniques
- RUSSELL WARLEY  
Ph.D. Chemical Engineering – Case Western Reserve University  
*Teaching Specialties:* Thermodynamics statistics/DOE, statics, materials, heat transfer  
*Research Interests:* Mechanics and processing of polymers, viscoelastic properties of elastomers, engineering software development

- YI (ELISA) WU  
Ph.D. Mechanical and Aerospace Engineering – University of Virginia  
*Teaching Specialties:* Control, computational methods in engineering, measurement theory, instrumentation in engineering, bioengineering and biomedical systems  
*Research Interests:* Biomedical systems, bioengineering, biological/biomedical systems modeling, control theory, dynamical systems, robotics
- JUN ZHOU  
Ph.D. – Mechanical Engineering – University of Missouri-Rolla  
*Teaching Specialties:* Thermodynamics, heat transfer, fluid mechanics, energy systems, numerical methods  
*Research Interests:* CFD, multi-scale modeling of energy transport in laser materials processing, laser-based welding, numerical methods, energy systems, biological fluid mechanics, and heat transfer

## MECHANICAL ENGINEERING TECHNOLOGY

- THOMAS BRISELDEN  
B.S.M.E. Mechanical Engineering – Cleveland State University  
*Teaching Specialties:* Thermodynamics, heat transfer and hydraulics  
*Research Interests:* High temperature heat transfer and fluids, combustion, aerodynamics and process optimization
- ROBERT EDWARDS  
M.S. Engineering – Gannon University  
*Teaching Specialties:* Mechanics, thermodynamics, graphics  
*Research Interests:* Electronic systems, piping, fluid flow systems
- RICHARD ENGLUND  
M.S. Mechanical Engineering – State University of New York at Buffalo  
*Teaching Specialties:* Mechanical design, instrumentation and measurement, metrology  
*Research Interests:* Measurement, biomechanics, fastener performance, design theory
- EDWARD EVANS JR.  
M.S. Civil Engineering – Youngstown State University  
*Teaching Specialties:* Electrical circuit theory  
*Research Interests:* Analysis and manufacture of structural composites, dimension, tolerancing
- KENNETH FISHER  
M.S.M.E. Mechanical Engineering – Purdue University  
*Teaching Specialties:* Mechanical design, kinematics, thermosciences  
*Research Interests:* Design of mechanical systems, surgical lighting and equipment design, sterilization systems design, computer-aided design or instruction, technology management, technology forecasting
- DAVID FORSMAN  
M.E. Manufacturing Systems Engineering – State University of New York at Buffalo  
*Teaching Specialties:* CAD, computer programming/graphics  
*Research Interests:* CAD, computer simulation, software engineering
- KATHRYN HOLLIDAY-DARR  
M.S. Industrial Arts – State University of New York at Buffalo  
*Teaching Specialties:* Engineering graphics, CAD, first year experience, descriptive geometry  
*Research Interests:* Improving visualization skills

- DAVID JOHNSON  
M.S. Mechanical Engineering – Penn State University  
*Teaching Specialties:* Machine design, kinematics, thermodynamics, heat transfer, thermal/structural finite  
*Research Interests:* Structural FEA analysis, thermal FEA analysis, fluid flow CFD analysis, fatigue/fracture/failure analysis, applications, graphics
  
- MICHAEL LOBAUGH  
M.S. Engineering Management – University of Massachusetts  
*Teaching Specialties:* Manufacturing technologies, quality engineering, machine shop applications, engineering graphics, lean manufacturing  
*Research Interests:* Rapid prototyping, advanced manufacturing technology/methods
  
- ROBERT MICHAEL  
M.S. Mechanical Engineering – Case Western Reserve University  
*Teaching Specialties:* Engineering graphics, descriptive geometry, strength of materials, product design  
*Research Interests:* Elastomeric fatigue properties, elastomeric product design, non-linear hyperelastic material modeling of elastomers, innovative equipment design for commercial roofing industry
  
- FREDRICK NITTERRIGHT  
M.S. Manufacturing Systems Engineering – University of Pittsburgh  
*Teaching Specialties:* Engineering graphics, machine shop application, manufacturing technologies  
*Research Interests:* Technology management, manufacturing costs and quotations
  
- SHANNON SWEENEY  
M.S. Mechanical Engineering – Case Western Reserve University  
*Teaching Specialties:* Materials engineering/selection, quality engineering  
*Research Interests:* Materials development, torsional vibration, metrology
  
- YONGFANG ZHONG  
Ph.D. – Mechanical Engineering – University of Illinois at Urbana-Champaign  
*Teaching Specialties:* Thermodynamics, heat transfer, and flow power  
*Research Interests:* Heat transfer and fluids aspects of sustainable, renewable energy systems and environmental control technology

## PHYSICS

- PAUL ASHCRAFT  
B.S.Ed. Secondary Math – Clarion University of Pennsylvania  
*Teaching Specialties:* Introductory physics, conceptual physics  
*Research Interests:* Physics education
- G. WILLIAM BAXTER III  
Ph.D. Physics – Duke University  
*Teaching Specialties:* Electronics, research methods, introductory physics  
*Research Interests:* Flowing granular materials, force transmission in static granular media, pattern formation in fluid systems
- JONATHAN HALL  
M.A. Earth Science – West Chester University  
*Teaching Specialties:* Introductory physics  
*Research Interests:* Physics education, instructional labs
- ROGER KNACKE  
Ph.D. Physics – University of California  
*Teaching Specialties:* Astronomy, physics  
*Research Interests:* Origins of solar systems, interstellar matter, planetary sciences
- BLAIR TUTTLE  
Ph.D. Physics – University of Illinois at Urbana-Champaign  
*Teaching Specialties:* Modern physics  
*Research Interests:* Computational materials physics: atomic-scale simulations, electron tunneling in nano-structures; point defects in semiconductors
- DARREN WILLIAMS  
Ph.D. Astronomy and Astrophysics – Penn State University  
*Teaching Specialties:* Astronomy and astrophysics, planetary science  
*Research Interests:* Origins of planets and satellites, planetary dynamics, planetary climates
- BRUCE WITTMERSHAUS  
Ph.D. Physics – University of Rochester  
*Teaching Specialties:* General physics, optics  
*Research Interests:* Solar energy, visible spectroscopy, applications of biomolecules
- CHUCK YEUNG  
Ph.D. Physics – University of Illinois at Urbana-Champaign  
*Teaching Specialties:* Physics  
*Research Interests:* Nonlinear dynamics, pattern formation dynamics, polymers

## PLASTICS ENGINEERING TECHNOLOGY

- JOHN BEAUMONT  
M.S. Plastics Engineering – University of Massachusetts Lowell  
*Teaching Specialties:* Plastics flow and thermal analysis in molding, mold design, plastic parts design, injection molding  
*Research Interests:* Material characterization-thermoplastic and thermoset shrinkage, warp and stress predictions for plastics extrusion flow analysis polymer, orientational effects
- BRADLEY JOHNSON  
M.E., M.B.A. – Gannon University  
*Teaching Specialties:* Plastics processing  
*Research Interests:* Plastics processing and process control
- PAUL KOCH  
Ph.D. Plastics Engineering – University of Massachusetts Lowell  
*Teaching Specialties:* Plastics technology, organic chemistry  
*Research Interests:* Plastics processing, solar energy
- JONATHAN MECKLEY  
M.S. Plastics Engineering – University of Massachusetts Lowell  
*Teaching Specialties:* CAE simulation tools  
*Research Interests:* Blow molding, rapid commercialization
- GARY SMITH  
Ph.D. – Organic Chemistry – State University of New York at Albany  
*Teaching Specialties:* Materials, polymers, and chemistry  
*Research Interests:* New materials, polymer modification, and polymer blends
- BRIAN YOUNG  
B.S. Plastics Engineering Technology – Penn State Erie, The Behrend College  
*Teaching Specialties:* Plastics processing and plastics materials science  
*Research Interests:* Plastics manufacturing technologies

## PSYCHOLOGY

- DAWN BLASKO  
Ph.D. Experimental Psychology – State University of New York at Binghamton  
*Teaching Specialties:* Research methods, cognition, cross-cultural psychology, psychology of language, cognitive development  
*Research Interests:* Creative cognition, including the understanding and use of metaphor and sarcasm in children and adults, individual differences in attention and working memory, psychological principles applied to teaching sustainability and civic engagement, and gender differences in spatial cognition and their influence on career choice and academic achievement
- ERIC CORTY  
Ph.D. Clinical Psychology – Indiana University, Bloomington  
*Teaching Specialties:* Statistics, tests and measurements, human sexuality, abnormal psychology  
*Research Interests:* Sexual dysfunction, measurement of subjective outcomes
- DHARMA JAIRAM  
Ph.D. Educational Psychology –University of Nebraska - Lincoln  
*Teaching Specialties:* Educational psychology, psychology of learning, child development, adolescent development  
*Research Interests:* Learning strategies, knowledge representation, strategies for note-taking and studying, cognitive factors related to writing ability, the development of talent and expertise
- CARL KALLGREN  
Ph.D. Social Psychology – Arizona State University  
*Teaching specialties:* Basic and applied social psychology, program evaluation, social issues  
*Research & Outreach Interests:* Refining and testing conceptual models of social interventions, especially the CORE Model of Intervention; teenage pregnancy prevention within the context of healthy youth development; community empowerment; program evaluation; norm-behavior correspondence
- VICTORIA KAZMERSKI  
Ph.D. Psychology – State University of New York at Stony Brook  
*Teaching Specialties:* Cognitive neuroscience, learning, research methodology, cognitive development, exceptional children  
*Research Interests:* Biological mechanisms of higher cognitive functions, especially language and memory; changes in memory and language across the life span; memory and language disorders; use of technology and multimedia in teaching the scientific method; effectiveness of methods of teaching science
- CHARISSE NIXON  
Ph.D. Developmental Psychology – West Virginia University  
*Teaching Specialties:* Developmental psychology, adolescence, child development, psychology of women

*Research Interests:* Basic and intervention studies related to relational aggression among children and adolescents, onset of smoking among children and adolescents

- CLARE PORAC  
Ph.D. Psychology – Graduate Faculty of Political and Social Science, New School for Social Research  
*Teaching Specialties:* Research methods and statistics, human perception, behavior genetics, history and systems of psychology, neuropsychology  
*Research Interests:* Perception of visual illusions, human lateral preferences
- JENNIFER TRICH KREMER  
M.A. Experimental Psychology, ABD Human Factors – University of Cincinnati  
*Teaching Specialties:* Engineering psychology, human computer interaction and design, ergonomics and safety, industrial organizational psychology, work motivation, research methods  
*Research Interests:* Understanding and improving the user experience related to products and tools, usability of technology in the classroom, individual differences in how people cope with stress, gender differences in use of technology, gaming and its impact on everyday life
- CAROL WILSON  
Ph.D. Social Psychology – Texas A&M University  
*Teaching Specialties:* Social psychology, personality psychology, statistics, interpersonal relationships  
*Research Interests:* Attachment theory and romantic relationships, memory and information processing within relationships, social support, the transition to parenthood