Entrepreneurial Education Spans the Six Critical Skills of Entrepreneurship
At Michigan, the entrepreneurial-studies curriculum is engaging other disciplines on campus, including law, medicine and engineering, to expose students to value-added practices of entrepreneurship, thereby creating a 1+1=3 scenario. Omosis is a wonderful concept.

The new Zell Entrepreneurship and Law Program will establish a curriculum specifically designed to prepare law students either to advise business entrepreneurs or to launch their own enterprises. The program will include a new legal clinic in entrepreneurial law clinics where law students will furnish legal advice to student start-up companies. The program is funded by a $5 million gift from Sam Zell, the Institute’s co-benefactor and a 1966 Law School graduate. It will serve as a valuable resource for new business ventures while affording law students an opportunity to gain hands-on experience in the practice of entrepreneurship law.

In 2011, the Institute’s faculty and professional staff ramped up their activities at the School of Medicine’s Medical Innovation Center. They provided coaching and business advice to teams of Ph.D.s, M.D.s and MBAs that are commercializing research discoveries and advancing new ideas for cutting-edge medical diagnostics, tools and devices.

The main beneficiaries of this year’s success, of course, are the University students and graduates who will deploy their entrepreneur- ship skills, knowledge and experience to launch new companies, drive venture-capital investment, and forge innovative career pathways at major corporations.
Message from

DAVID J. BROPHY
Director, Center for Venture Capital and Private Equity Finance

Michigan is experiencing a significant growth in available venture capital and a dramatic change in culture tied to the realization that innovative new and growing companies spawned in our own backyard hold the key to our economic future. The state is using its financial strength to support venture-capital funds and direct grant investments to emerging companies. The University of Michigan is conducting sponsored research at an annual rate of approximately $1.5 billion and is accelerating the pace of research commercialization. As a result of the combined efforts of the state, the U-M, other universities and the private sector, Michigan is making a sustained economic comeback, perhaps slow but certainly steady. And entrepreneurship and venture capital are close to the heart of that renaissance.

At the Center for Venture Capital and Private Equity Finance (CVP), we prepare students for local, national and global leadership roles within their finance/entrepreneurial-studies courses in venture capital, private equity, global private equity, financing research commercialization and entrepreneurial finance. To augment classroom materials and lectures, we engage students in actual projects with University researchers, entrepreneurial company founders and U-M alumni who bring live, current deals to class. This first-hand experience immerses students in real situations with real people where they can apply their skills to real challenges in real time. At the CVP, we also conduct scholarly research on global issues. Our recent study of cross-border mergers and acquisitions and private-equity investment in the BRIC countries will be featured in the India Business Conference this October. Our study of private investment in public entities, published in The Review of Financial Studies, is currently the most widely cited work on that topic. Our study of the underlying theory and drivers of venture capital and buyout fundraising is break-through research in financial economics.

In May 2011, the CVP-originated Michigan Growth Capital Symposium celebrated its 30th year, further burnishing its image as the center-piece for early stage venture-capital investment and entrepreneurial activity in Michigan. Over the past three decades, the annual gathering has grown in quality and success by attracting increasing numbers of venture capitalists, institutional investors, practicing entrepreneurs and corporate sponsors. The Global Private Equity Conference, which focuses on later-stage investment capital and harvests, entered its sixth year in 2011. We continue to realize tremendous enthusiasm for the Alan Gelband Public-to-Private Buyout Competition, a head-to-head challenge between two top teams from our Private Equity MBA class selected by a panel of private-equity judges.

One of the greatest advantages of the CVP, the Zell Lurie Institute and the Ross School of Business is that former students — such as Jeff Blau, BBA '90, president of The Related Companies and benefactor of the School’s Blau Auditorium, David Evans, AB ’85, founder of Glencoe Capital and benefactor of the University of Michigan, Alan Gelband, BBA'55, MBA ’67, founder of Gelband Investment Company, and Naimish Patel, BBA ’97, an investment partner in Long Point Capital, and the Zell Lurie Institute’s managing director. “We deliver courses and programs along a continuum to help students acquire those foundational skills.”

Since 1999, the Samuel Zell and Robert H. Lurie Institute for Entrepreneurial Studies has led the nation, the state and the University of Michigan in pioneering award-winning entrepreneurial courses and programs. During that time, it has served as a catalyst in creating a vibrant entrepreneurial ecosystem on and off the U-M campus. Through the Institute’s cross-disciplinary outreach, entrepreneurship has planted a firm foothold at the Stephen M. Ross School of Business, the College of Engineering, the School of Medicine and, most recently, the Law School. This synergy has created a Michigan model of entrepreneurship education that sets the University apart from its peers.

The Institute’s success arises from its identification of and focus on six core entrepreneurial skills — opportunity identification, business design, business assessment, business planning, action-oriented learning, and alumni networking. This approach entails:

- Engaging students early and consistently over a period of time
- Providing multiple experiences at each skill level
- Catalyzing diverse teams across academic disciplines
- Offering continually accessible one-on-one coaching

“Both the actual experiences of entrepreneurs engaged in technology, life sciences, online sales or social causes may be different, but the skills they need to succeed are still the same,” says Tim Faley, the Institute’s managing director. “We deliver courses and programs along a continuum to help students acquire those foundational skills.”

PLATFORM FOR ENTREPRENEURIAL SUCCESS

“Altogether these six interrelated foundational skills create an impactful, holistic approach to entrepreneurship education at Michigan and provide our students with a solid platform for entrepreneurial success,” Faley says. “The Institute and other entrepreneurial centers on campus are teaching students how to launch multiple businesses rather than simply guiding them through the formation of a single business. This ‘learn-do, learn-do’ repetition is ultimately what differentiates our programmatic approach from others in the higher-education field.”
BUSINESS DESIGN

Once an opportunity has been identified and validated, students need to determine: who their customers are and why those customers will buy what they are selling; who their business will collaborate with and why these other organizations will cooperate with them; and how they will make money.

Developing the Skill

Multidisciplinary Graduate-Level Courses
Entrepalooza
Distinguished Speakers Innovators Seminar
Dare to Dream $500 Venture Shaping Grants

Breaking into Online Retail

Allen Kim, BSE ’12, Co-founder, Bebarang.com

As an industrial-operations engineering student at the U-M College of Engineering, Allen Kim, BSE ’12, knew nothing about babies or baby clothes. However, with assistance from the Zell Lurie Institute and other on-campus entrepreneurial resources, he parlayed his interest in fashion and clothing into Bebarang.com (formerly Bebaroo), a start-up company offering online rentals of special-occasion children’s clothes. “I couldn’t resist my entrepreneurial calling,” says Kim, who conducted customer surveys by buttonholing Ann Arbor-area mothers at Starbucks and Briarwood Mall. Over the 2010 spring break, he took entrepreneurship trips sponsored by the College of Engineering’s Center for Entrepreneurship to the San Francisco Bay area and New York City, where he met world-famous entrepreneurs, venture capitalists and industry leaders. “The feedback I received, especially from Michigan alumni, was very helpful,” Kim says. He also benefited from intensive coaching at the two-day Ann Arbor SPARK Entrepreneur Boot Camp and exposure to entrepreneurial luminaries at the College of Engineering’s Distinguished Speakers and Innovators Seminar. Kim financed his start-up by winning business competitions, including Dare to Dream, the Michigan Business Challenge and the 2010 College Entrepreneur of the Year award from Entrepreneur Magazine. Barbarang gained traction at the TechWeb business accelerator and launched its Web-based rental service in August 2010. “Recently, we have pivoted the business to a different angle,” Kim says. “Currently, we are working out of a business incubator in New York City and plan to re-launch our service in the near future.”
BUSINESS ASSESSMENT

Before building a business, students need to know if it makes sense to build. Conducting a feasibility study provides that reality check.

Developing the Skill
- Multidisciplinary Venture Creation Courses
- Dare to Dream $1,500 Assessment Grants
- Michigan Business Challenge (round two)
- Wolverine Venture Fund
- Frankel Commercialization Fund
- Social Venture Fund

Evaluating Entrepreneurial Potential

Justin Jackson, Ph.D. AeroE ’12, Student Fund Manager, Frankel Commercialization Fund

With his sights set on launching a successful business someday, Justin Jackson, Ph.D. AeroE ’12, wanted to augment his aerospace-engineering background with entrepreneurial business skills. Last fall, he joined the technology team on the student-directed, pre-seed Frankel Commercialization Fund, which engages students in the very beginning stages of research commercialization where deals are sourced, technologies and inventors are evaluated, and companies are formed. “The skills an engineer uses to solve an engineering problem or develop an engineering product are quite different,” Jackson explains. “The Frankel Fund offered me an opportunity to understand what makes business start-ups successful and what investors look for.”

Jackson tested the entrepreneurial waters in two multidisciplinary courses — Finance Professor David Brophy’s Financing Research Commercialization and Professor of Entrepreneurship Tim Faley’s innovative new Business Design — and won a $500 Dare to Dream assessment-phase grant for an aerial-photography services start-up.

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BUSINESS PLANNING

Skill in business planning is essential for a successful company launch. Students are taught how to “operationalize” a business, not just create a document.

Developing the Skill
- Multidisciplinary Entrepreneurial Management & New Venture Creation Courses
- Dare to Dream Integration Grants up to $10,000
- Michigan Business Challenge (final rounds)
- TechArb Accelerator
- Michigan Growth Capital Symposium

Charting the Course for Green Innovation

Paul Davis, MBA/MS ’11 and Robert Levine, PhD ’13, Co-founders, ReGenerate Solutions

One day soon, supermarkets and cafeterias may convert food scraps and leftovers into biogas for powering on-site hot-water heaters using an innovative “eco-dumpster” developed by ReGenerate Solutions. The start-up company, launched in 2009 by four Michigan graduate students, is perfecting its Compact Organic Waste Station (COWS), which utilizes anaerobic digestion to turn food waste into a methane-rich gas and organic-compost product. “We are currently raising financing in order to hire additional engineers, cultivate customer relationships and move from a one-fifth-scale prototype to a full COWS system by 2012,” explains Paul Davis, MBA/MS ’11. The four students met through the School of Natural Resources and Environment and the College of Engineering’s Better Living Using Engineering laboratory, or BluE laB. With dovetailing interests in waste management and renewable-energy generation, Robert (“Bobby”) Levine, PhD ’13, Nolan Orfield, PhD ’13, Hunt Briggs, MBA/MS ’11 and Davis quickly formed a team to develop and commercialize eco-dumpsters. They tapped the entrepreneurial resources of the Zell Lurie Institute, the Ross School and the College of Engineering, as they proceeded through the design, assessment and planning phases of business creation. ReGenerate amassed a considerable war chest by winning the $100,000 “Think Green” investment prize at the 2011 Rice University Business Plan Competition, as well as a $10,000 Dare to Dream integration-phase grant, a $7,500 U-M Dow Sustainability Award and a $10,000 runner-up prize at the Michigan Business Challenge. “The Clean Tech Entrepreneurship course taught by institute faculty members Tim Faley and Peter Adriaens hooked me on entrepreneurship,” Levine says. “Paul Kirsch, the Institute’s associate director, was an excellent coach who helped us develop our business model, refine our pitch and shape our commercialization plan.”

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RESOURCING
In addition to financial capital, start-ups also must procure human capital, including management teams, board advisors and providers of legal and other services. Students learn and test their skill in resourcing from the investors' side of the equation by taking active roles in the Frankel Commercialization Fund, the Wolverine Venture Fund, and the new Social Venture Fund.

Developing the Skill
Venture Capital Finance Course
Marcel Gani Summer Internship Program
Wolverine Venture Fund
Frankel Commercialization Fund
Social Venture Fund

Money on the Firing Line
Erik Gordon, Managing Director, Wolverine Venture Fund

Michigan MBAs on the student-led $5.5 million Wolverine Venture Fund (WVF) put real money on the firing line by making venture-capital investments in early stage companies and managing a broad-based portfolio. “Their educational experience couldn’t be more hands-on,” says Erik Gordon, the Fund’s director. “Students learn and practice the skills they need to assess business opportunities, markets, technologies, industries and management teams. They also are taught how to structure financing deals that make sense for the company and the venture fund.” The WVF currently holds investment positions in 15 portfolio companies, and has overseen four successful exits through acquisitions or initial public offerings since its inception in 1998. At every step, students are guided by seasoned investors who provide critiques and feedback. “Our goal is not just to educate venture capitalists, but to give students an in-depth understanding of all aspects of growing a great company,” Gordon adds. “These are skills any entrepreneur, or anyone who deals with entrepreneurs, should know.”

MANAGING GROWTH
Once launched, in order for the start-up to achieve its goals and meet its investors’ expectations, skill in managing growth within a resource-constrained environment is vital.

Developing the Skill
Managing the Growth of New Ventures Course
Entrepreneurial MAP
Marcel Gani Internships
Global Private Equity Conference

Harnessing Growth Potential
Diane Bouis, MBA ’12, Marcel Gani Intern, Inovo

Diane Bouis, MBA ’12, honed her skill in managing growth as a Marcel Gani intern working on client projects with established manufacturing companies seeking to develop new technological applications or product improvements. During her 12-week summer internship at Inovo, an Ann Arbor-based innovation consulting company, she combined creative thinking and community mining to help a Fortune 50 chemical company identify alternative uses for its proprietary technology in the energy sector and a leading pet-products manufacturer find ways to improve its cat litter. “Bringing fresh new thinking in more than one dimension can help companies pursue the innovation and development they need to stay ahead of the competition,” Bouis says. “As an innovation consultant, I need to think outside the box and not be limited by specific technological knowledge that can hamper the creative process.” At the Ross School, she also participated in case competitions sponsored by Medtronic, Deloitte and Boston Consulting Group that strengthened her problem-solving and business-management capabilities. Bouis plans to leverage her MBA education and background as a research scientist at the University of Michigan Cardiovascular Center to work in health-care innovation consulting or in the strategy division of a major pharmaceutical company after graduation.
2011 MILESTONES

The Samuel Zell, Mitchell Mondry and Zell Lurie Institute and Erb Institute Scholarship Awards totaled $55,000 providing 11 MBAs with $5000 each toward their tuition.

The Institute’s three student-led funds, Wolverine Venture Fund, Frankel Commercialization Fund and Social Venture Fund, have $6.5 million in total under management. Seventy-eight graduate level students from across campus participated on the funds and three new investments were made under their direction.

The campus-wide Dare to Dream grant program for student start-ups awarded $93,500 to 40 student teams across campus to develop their business ideas and create a business plan, while earning their degrees.

The Michigan Business Challenge engaged 48 teams from the University’s 19 Schools and Colleges awarding $54,300 in prize money. The Institute sponsored 38 students among 14 teams at intercollegiate and U.S. based competitions to represent Michigan – bringing home $247,500 in prize money and services.

The Marcel Gani Internship program placed 13 students at start-up and venture capital firms across the U.S.

The TechArb incubator managed by the Zell Lurie Institute and Center for Entrepreneurship, awarded 39 student teams with office space and provided mentoring to develop their business concepts.

MAP placed 45 first-year MBA students at six start-up companies nationally and across the globe.

Entrepalooza, the Michigan Private Equity Conference and Michigan Growth Capital Symposium engaged over 850 attendees from the entrepreneurial and investment community, as well as from the University of Michigan.

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