The College offered 289 online sections 2014-2015. [This number is 405 if ONL and ONLR are sections of the same course are treated separately.] There were 24 hybrid sections (mostly for PACE) offered for 23 different courses.

The Communication and Business Informatics departments have considerable experience in online courses and programs. Computer Science has moved more gradually into offering online courses, adding about one online course per year over the past four years. (By contrast, they offer many hybrid/PACE sections.) They launched their first online program last year with the undergraduate certificate in Cybersecurity. The Communication department offered all their non-speech courses online during summer 2015.

529.01 Y1-Y2: Expand the different course delivery offerings (e.g., online, hybrid, flipped, summer, weekend) while maintaining program integrity.

529.02 Y2: Departments and Dean’s Office, working with VPs, will develop a structured department evaluation to determine program capacity, strategies for programs whose enrollments are trending toward exceeding capacity and programs whose enrollments are declining to the point of unsustainability.

529.03 Y3: Departments will do structured annual evaluation of program capacity, identifying strategies for programs whose enrollments are trending toward exceeding capacity and programs whose enrollments are declining to the point of unsustainability.
2014-15 Progress Narrative

In spring 2015 the COI Core Knowledge Committee drafted a document defining a set of learning outcomes that will be common to all ten COI undergraduate degree programs. Using a unique animated video, they circulated this to the COI faculty for review. In fall 2015 their feedback will be incorporated into the document. Once approved, the undergraduate degree programs will be reviewed and tuned as necessary to ensure alignment.

The Data Science program added three new faculty in 2014-2015: a data analyst (NTTT in Business Informatics), a "big data" statistician (Asst Prof, in the Mathematics/Statistics Department in A&S), and a "big data" Computer Scientist (Asst Prof in CS). All three faculty members have experience in industry. The Data Analyst NTTT is assigned 50% time managing student projects in the Center for Applied Informatics as they take on an increasing number of analytics projects for clients.

Work has begun on a pre-proposal for the BS degree in Health Informatics, under the leadership of Gary Ozanich.

530.01 Y1: Review the set of INF-designated courses and establish a common set of learner outcomes for all COI graduates.

530.02 Y3: Scale up the transdisciplinary INF 128 Principles of Informatics course so that it will have sufficient sections available to be a required course in at least three of the undergraduate COI majors.

530.03 Y2: Develop an Informatics Common Capstone.

530.04 Continuously evaluate and improve transdisciplinarity and its impact in the Data Science program.

530.05 Y2-Y4: Develop new transdisciplinary programs in conjunction with the Health Innovations Center, including the expansion of the Health Informatics program into the undergraduate level.

530.06 Y3: Perform a need’s assessment for an MA in Informatics.
Maintain the quality of student experiential learning opportunities and improve the number of offerings.

2014-15 Progress Narrative

In fall 2015, the Center for Applied Informatics (CAI) Virtual Co-op program was recognized with an AASCU award for Excellence and Innovation in Regional and Economic Development. Also in fall 2015, it opened a satellite lab for its virtual coop program at RiverCenter in Covington, with support from Data Intensity, Inc. Brad Metzger, formerly P&G, started in spring 2015 is broadening the CAI's portfolio to include more analytics projects. In the coming year, the CAI will need to be reorganized given that Tim Ferguson can no longer serve as (part-time) Executive Director.

Plans have been developed to streamline the operations of the CAI to make the transition to a new director successful.

All three departments offered new experiential learning opportunities. The Business Informatics department offered an 'Internet of Things' course, INF 394, taught by the Director of Advanced Technology Applications at Duke Energy, Steve Hinkel. (They brought in the Newport SWAT team to demonstrate a class project building Raspberry Pi-controlled robot that can explore spaces a human would be at physical risk to enter). The Computer Science department led a spring 2015 Study Away class in Silicon Valley that focused on agile software development, visiting 5 top tech companies and Stanford University. In conjunction with the release of the film "Kill the Messenger" (based on the life of Gary Webb, who attended NKU in the 80s), two Journalism students accompanied the film crew for a press tour.

Rees Storm, Advising Center Director and Manager of Internships and Coops, has worked with Career Services to begin electronic record keeping of the full workflow connected to internships, co-ops, practica and capstone, both undergraduate and graduate.

Community Engagement

531.01 Increase the variety of projects run and managed by the CAI, annually

531.02 Working with community partners, include experiential learning in class projects and highlight the results.
Increase collaborations with community partners

2014-15 Progress Narrative

In December 2014, NKU became an NSA/DHS Center for Academic Excellence in Information Assurance and Cyber Defense Education, the culmination of four years of work. NKU will leverage this designation to engage with other universities and industry and seek grants. A partnership with US Bank’s Security Operations Center in Cincinnati is currently in the works. The NKU COI Center for Information Security will be running a Security Symposium at METS in October 2015.

The College played a major role in assisting Tri-ED in bringing a major IT/Data facility of ADM to Northern Kentucky this year, and it is currently involved with Tri-ED and REDI Cincinnati in working to bring two other major corporations into the region.

Prof. Gail Wells, Computer Science, will be using a part of her release time for CINSAM projects to be the point person as NKU hosts the Kentucky state First Lego League Competition in 2015-16.

The COI Dean’s Advisory Board has reconfigured its meetings, now convening every 2 months at the various business sites of its board members (e.g. 84.51/dunnhumby, Paycor, TiER1) and forming active subcommittees dealing with fundraising, connections, and the college’s 10th anniversary year celebrations.

532.01 Increase Center of Applied informatics partners in technology and data science, ongoing
532.02 Y2-Y3: Improve quality and visibility of K-12 outreach efforts
532.03 Y2: Collaborations between industry, other universities, and the Center for Information Security
532.04 Y1-Y2: Improve the engagement of the Dean’s Advisory Board with college activities

Increase visibility of COI community engagement activities

2014-15 Progress Narrative

In 2014-15 the COI hired an events/media coordinator (Krista Rayford) and a communications director as contract hires on year-to-year funds. In May 2015, the latter contract had to be terminated, but efforts continue as we work on upgrading the event/media coordinator position and using the 1/3-time services of our marketing liaison from Marketing and Communications.

In 2014-2015 there were 10+ externally disseminated stories about the COI. These included three WVXU “Around Cincinnati” pieces, one WCPO (Channel 9) story, three stories on WKRC (Channel 12), and 4 print/web stories by external journalists.
533.01 Y1: Develop procedure for recording advertising, news, and other external communication modalities for the COI

533.02 Y2-Y3: Increase the number of articles, mentions and news pieces about the COI

Institutional Excellence

534 Steward resources wisely and efficiently to achieve goals.

College of Informatics

2014-15 Progress Narrative

Figures from Huron in Spring 2015 showed the efficient use of resources based on 2013 data; the COI was one of only two colleges "in the black" (before "participation" was assessed). All indications are that the following year was even stronger. In preparation for the move to the new budget model, the dean and the budget officer are working with chairs to do departmental "snapshots", a study in zero-based budgeting, as the first step in modeling.

Total giving to the COI in 2014-15 was $628,415, a five-fold increase over 2013-14 (which in turn was higher than in 2012-13). In addition, we successfully completed an 18 month search for a Director of Advancement; Kendall Fisher joined NKU at the beginning of May, the first time the college has had a full-time development staff member since Griffin Hall opened in Fall 2011.

Marketing efforts are now giving most attention to a few key programs: data science (undergraduate), and health informatics, computer science, and communication (graduate). We have worked closely with our 1/3-time marketing manager on these efforts.

534.01 Ensure sufficient funds are available from gifts, grants and internal allocations to maintain Griffin Hall as a cutting-edge learning facility, ongoing

534.02 Y1: Work with MARCOMM to rework the COI’s set of printed materials and web presence, consistent with new NKU guidelines, maximizing impact with designated audiences.

534.03 Y2-Y4: Move into the RCM model with a set of entrepreneurial programs that include but are not limited to scaling up non-credit bearing professional courses in high-need focal areas of informatics.
Sustain a college culture that values inclusiveness, excellence, civility, health and wellness.

College of Informatics

Begin in 2014-15

5.1a, 5.1c, 5.1d, 5.1e

2014-15 Progress Narrative

Dr. Kathleen Roberts piloted a “Cafe Conversations” session for staff, students and faculty in the COI in Fall 2014, as a precursor to the larger one she held for the university in the spring. Two of the top recommendations, the creation of a COI staff/faculty library and a monthly COI newsletter, will be ready for August, 2015.

The COI also sponsored a voluntary program of faculty cross-department peer-review of classroom teaching. Over 20 faculty participated in both the fall and spring semester. Based on the feedback from these two events, talks are underway to do this in a faculty learning community for 2015-16.

Bonnie Meyer, and others from LGBTQ Programs and Services held an Allied Training course in the spring specifically for the COI. We will schedule another one for the coming year.

College-wide committees focusing on student outcomes and experiential learning added staff members from Advising and the CAI to their committees. Norse Commons, the COI Advising Center and the Dean's Office organized a weekly series in which staff and faculty gave informal talks in the cafeteria.

Although the college lost its one full-time African American faculty member (Ann Taylor, Communication) to retirement, it gained another (Cynthia Thomas, Computer Science).

The College won the NKU Wellness and Work Award this year.

535.01 Y2: Work with Academic Affairs to explore externally affiliated and/or part-time tenure track positions, possibly with external endowments.

535.02 Y2. Work with Academic Affairs to explore variants of the non-tenure-track positions that can include work with external partners, service learning, and other engagements.

535.03 Y3: Experiment, where feasible, with the hiring of Visiting Assistant Professors for two-year periods.

535.04 Y2-Y3: Work with NKU Senior Advisor for Inclusive Excellence; develop a program targeting recruitment of a diverse adjunct pool, working with minority professional organizations such as the BDPA.

535.05 Continue to address community building in Griffin Hall among staff and faculty, involving celebratory, recreational, and professional development events, cognizant of work-life balance and the need for a sense of place.
2014-15 Progress Narrative

All COI marketing materials are making the transition to the new branding.

Cross-college collaborations include inviting non-COI faculty to the COI Cafe Conversations, inviting faculty from different colleges to teach our courses (e.g. INF 128, CSC 270), developing learning communities with classes outside of the COI, and working on grants led by faculty from other colleges (NSF IUSE). Faculty also participated in non-COI faculty searches (History & Geography) and continued to collaborate on retention and recruitment efforts (NSF FORCE, NSF SOAR).

536.01 Follow MARCOMM’s lead for NKU Branding, and COI-specific branding, ongoing
536.02 Y2-Y4: Support cross-college initiatives and non-COI initiatives to promote the success of our students and NKU in general

537 Increase visibility of COI community engagement activities

2014-15 Progress Narrative

See 533 above.

There are weekly "Message of the Week" meetings with the dean, the associate dean, the event/media coordinator, and the liaison to Marketing & Communications. These focus everything from what tweets and posts to put out, to major press releases.

537.01 Y1: Develop procedure for recording advertising, news, and other external communication modalities for the COI
537.02 Y2-Y3: Increase the number of articles, mentions and news pieces about the COI

Student Success
**Enhance student progression to graduation in a timely manner**

2014-15 Progress Narrative

There have been a number of activities in the COI to improve retention in 2014-2015 including INFO-PROMO U, INFO-EXPO, faculty/staff/student social events and an increase in undergraduate research with faculty. In addition, analysis was done for the different majors and classes with high DFW rates. In response to the latter, STEM Ambassadors began providing guided study sessions for freshmen CIT majors which initially saw a decrease in the course’s DFW rate. This support will continue for 2015-2016. Learning Communities were expanded for classes traditionally taken by COI incoming freshmen since they have been shown to have a positive correlation with retention.

The baseline numbers for retention and graduation from Institutional Research are Fall to Fall retention was 68.3% (NKU was 69.3%) for the 20131 cohort, the <= 6 year graduation rate was 34.1% for the 20081 cohort, compared to 41.5% for all of NKU.

### 524.01
Increase retention within the college, all programs collectively by Y3, report annually.

### 524.02
Increase graduation rates for all undergraduate COI degree programs

**Systematically engage more faculty members in the mentoring of students, supplementing the work of the COI Advising Center.**

2014-15 Progress Narrative

Our integrated Advising Center is in the process of scaling up to a multi-facettted COI student success center. It has added student peer coaches and professionalization workshops. We are beginning planning for faculty “academic mentors” to supplement staff “advisors”.

### 525.01
Y1-Y2: Research best practices and develop a plan so all students have access to a professional advisor and a faculty academic mentor.

### 525.02
Y2-Y3: Begin roll out of plan for one targeted class level.

### 525.03
Y4: Extend to full undergraduate class.

**Broaden participation in Study Abroad / Study Away programs.**

2014-15 Progress Narrative

In 2014-2015 the COI offered and ran two Study Abroad courses (Belize and Sri Lanka) and one Study Away course (Silicon Valley). A course traveling to Korea and Japan received insufficient enrollment.

Faculty from Communication developed a semester exchange program with Rotterdam University of Applied Sciences, and two students each from Rotterdam and NKU are being exchanged this year. Two Computer Science faculty traveled in summer 2015 to Szechuan China and are working on setting up programs there.
Y1-Y2: Work with the office of International Education and department chairs to engage faculty to develop Study Abroad/Study Away programs.

Y2: Increase the number of COI students participating in Study Abroad / Study Away programs annually.

Y2-Y4: Increase the number of different Study Abroad/Study Away programs offered.

**Talent Development**

<table>
<thead>
<tr>
<th>527</th>
<th>Develop faculty and students as researchers through undergraduate research.</th>
<th>College of Informatics</th>
<th>Begin in 2014-15</th>
<th>2.3a, 3.2a, 3.2d, 5.2a</th>
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**2014-15 Progress Narrative**

This year 71 COI students presented as part of the NKU Celebration of Research and Creativity. There were 32 COI posters at the celebration, an increase of 167% from the previous year. The Communication department hosted a film festival (5 students) and had two interactive presentations during the spring celebration (8 students).

Y1-Y2: Define and implement system to track students doing undergraduate research based on the university system for accounting of experiential learning including defining the baseline numbers.

Y3: Begin growing the number of students doing undergraduate research with faculty by 5% annually.

Y4: Begin growing the number of freshmen and sophomores doing undergraduate research by 3% annually.

Y2: Reboot the Informatics Strategic Grant Committee working with RGC to provide faculty support and education regarding opportunities for funding undergraduate student research.
2014-15 Progress Narrative

The COI Advising Center developed and implemented two programs: INFO-EXPO held in the fall and INFO-PROMO U held in the spring, to provide students support to connect on campus, setting up successful academic and career plans. This year we are establishing a baseline of student participation.

* The number of students who did internships or co-ops: Business Informatics: 19; Communication: 129; Computer Science: 71.

* There are 549 enrolled degree seeking COI students with a resume in Norse Recruiting; 391 of them uploaded or updated their resume in 2014-2015.

* There were 127 COI students who participated in the STEM-NG fair (41% increase from the previous year), 167 students who participated in JobExpo in the spring, and 67 COI students who participated in Kroger Career Day.

* Student participation in INFO-EXPO was 200 individual students. Total attendance at INFO-PROMO-U was 191 students.

528.01 Increase the number of COI student resumes uploaded to Norse Recruiting
528.02 Increase the number of COI students participating in the STEM-NG and spring job fairs
528.03 Y2: Grow the number of students doing off-campus internships and co-ops by 8% annually.
528.04 Increase student participation in INFO-EXPO and INFO-PROMO U by 10% each year.