

**BOARD OF TRUSTEES  
ACADEMIC QUALITY AND STUDENT SUCCESS COMMITTEE**

**Sudershan K. Garg, Chair  
James E. “Ted” Roberts, Vice Chair  
All Trustees are Members  
James P Tressel, *Ex-Officio***

**BACKGROUND MATERIALS  
Thursday, February 19, 2015**

- 1. Grants and Sponsored Programs Report** **Tab 1**  
The Second Quarter Report from the Office of Grants and Sponsored Programs is presented for the Board of Trustees’ information.
  
- 2. Current Accreditation Activity and Higher Learning Commission Update** **Tab 2**  
The report on accreditation activity shows recent accreditations and upcoming site visits and documents submitted. Also included in this report is an update on Higher Learning Commission accreditation activities.
  
- 3. Academic Programs Update** **Tab 3**  
The report outlines new program development.
  
- 4. Research Professorship List** **Tab 4**  
A list of faculty who were granted research professorships for 2015-2016 is provided. Each year no fewer than eighteen (18) faculty members whose unsubsidized research is deemed meritorious of support shall be designated “Research Professors” and awarded a workload reduction of a minimum of six (6) hours to a maximum of nine (9) hours to pursue research. The total number of hours distributed will be no less than 162 hours.

**BACKGROUND MATERIALS:**  
Academic Quality and Student Success Committee

**TAB 1:** Grants and Sponsored Programs Report

**STAFF CONTACT:** Dr. Edward Orona, Director, Office of Grants and Sponsored Programs, and Dr. Scott Martin, Interim Associate Dean for Graduate Research

**HIGHLIGHTS OR ISSUES:**

- Thirty-two grant submissions totaling \$6,465,054 were submitted during the second quarter.
- Fourteen grants were awarded during the second quarter totaling \$822,916
- There is a significant increase in grant submission activity to remain optimistic for expected growth in the third quarter.

**TAB 2:** Current Accreditation Activity and Higher Learning Commission Update

**STAFF CONTACT:** Dr. Kevin E. Ball, Associate Provost for Academic Programs and Planning

**HIGHLIGHTS OR ISSUES:**

- The Council for Accreditation of Counseling and Related Educational Programs (CACREP) conducted a site visit in December 2014 and reported the Counseling Program met all standards.
- Ten-year accreditation of the Physical Therapy program was reaffirmed by the Commission on Accreditation in Physical Therapy Education (CAPTE) in writing on November 12, 2014.
- The Association to Advance Collegiate Schools of Business (AACSB) Board of Directors has extended the AACSB accreditation of the YSU BSBA and MBA programs.

**TAB 3:** Academic Programs Update

**STAFF CONTACT:** Dr. Kevin E. Ball, Associate Provost for Academic Programs and Planning

**HIGHLIGHTS OR ISSUES:**

- YSU received approval to offer the Bachelor of Science in Education—Early Childhood License (P-3) at Lakeland Community College.
- The 4 + 1 Master of Science in Mathematics has been approved.

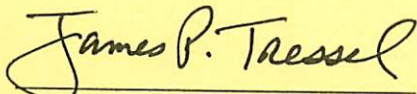
**TAB 4:** Research Professorship List

**STAFF CONTACT:** Dr. Scott Martin, Interim Associate Dean for Graduate Research

**HIGHLIGHTS OR ISSUES:**

- Article 27.2 of *The YSU-OEA Agreement* outlines a procedure for faculty members to apply for Research Professorships.
- Forty-five (45) faculty members applied for a research professorship for the 2015-16 academic year.
- Twenty-two (22) applications were granted. The attached list names the faculty member, project, and number of workload hours awarded.
- The total number of workload hours allocated is 162.

**REVIEWED:**



James P. Tressel, President

**MEMORANDUM**

DATE: January 26, 2014

TO: Martin Abraham, PhD, Interim Provost and VP Academic Affairs

FROM: Scott Martin, PhD, Interim Associate Dean for Research *Scott C. Martin*  
Edward Orona, PhD, Director, Office of Grants and Sponsored Programs (OGSP)

RE: **FY 2014-15 – 2nd Quarter OGSP Report**  
(Grant Activity from October 1, 2014 – December 31, 2014)

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Attached is the FY15 Second Quarter Report from the Office of Grants and Sponsored Programs for presentation to the Academic Quality and Student Success Committee of the Board of Trustees.

**2nd Quarter Submissions: (32 submissions requesting \$6,465,054)**

For the second quarter year-to-date (YTD), there was an **11% increase** in the number of total submissions and a **17% increase** in the total dollars requested in grant proposals and contracts.

Noteworthy submissions included:

Dr. Guha Manogharan, to the National Institute of Standards and Technology, \$495,510 for the development of a Precision Printed Parts Network.

Dr. Charles Howell, to the Great Lakes Community Investments (\$541,359) for the PAC program (Progressing Along the Continuum of Success).

Dr. Ron Chordas and Dominic Marchionda, to the U. S. Department of Commerce (\$436,615) to establish a Research, Development and Innovation (RDI) Campus.

**2nd Quarter Awards: \$822,916 (14 awarded grants and contracts)**

Noteworthy grant awards included:

Dr. Guha Manogharan (Mechanical and Industrial Engineering), \$168,226, from the Ohio Development Services Agency, through a subgrant from the Youngstown Business Incubator for research and support of 3D printing technologies.

Dean Licata, WCBA, \$159,950, for the Small Business Development Center (SBDC) from the U. S. SBA through the Ohio Development Services Agency.

**Awards: Year-To-Date (YTD)**

Compared to the same time last year, there was a decrease in the total awarded dollars. The funded grants and contracts totaled **\$2,507,756**.

In spite of the decrease in funded awards, the significant increases in grant submission activity provide reason to remain optimistic for expected growth in the next quarter.

**YOUNGSTOWN STATE UNIVERSITY**

**School of Graduate Studies and Research**

**Office of Grants and Sponsored Programs**

**SECOND QUARTER REPORT**

**FY 2014-2015**

**October 1, 2014 - December 31, 2014**

## EXECUTIVE SUMMARY

### Second Quarter Report - FY2014-2015 October 1, 2014 - December 31, 2014

(Includes previous year comparison)

#### SUBMISSIONS

	<u>FY2013-2014 Second Quarter</u> 10/1/2013-12/31/2013	<u>FY2014-2015 Second Quarter</u> 10/1/2014-12/31/2014
TOTAL PROPOSALS	\$ 8,532,052 (28)	\$ 6,465,054 (32)
	<u>YTD - FY2013-2014</u> 7/1/2013-12/31/2013	<u>YTD - FY2014-2015</u> 7/1/2014-12/31/2014
TOTAL PROPOSALS	\$ 11,619,693 (54)	\$ 13,691,355 (60)

#### FUNDED GRANTS AND CONTRACTS

	<u>FY2013-2014 - Second Quarter</u> 10/1/2013-12/31/2013	<u>2014-2015 - Second Quarter</u> 10/1/2014-12/31/2014
TOTAL PROPOSALS	\$ 2,951,651 (19)	\$ 822,916 (14)
	<u>YTD - FY2013-2014</u> 7/1/2013-12/31/2013	<u>YTD - FY2014-2015</u> 7/1/2014-12/31/2014
TOTAL PROPOSALS	\$ 5,386,670 (46)	\$ 2,507,756 (39)

**PROPOSALS SUBMITTED TO EXTERNAL FUNDING SOURCES**  
**Second Quarter Report - FY2014-2015**  
**October 1, 2014 - December 31, 2014**

<b>PRINCIPAL INVESTIGATOR</b>	<b>DEPARTMENT</b>	<b>FUNDING SOURCE</b>	<b>PROJECT TITLE</b>	<b>AMOUNT</b>
Pohle-Krauza, Rachael	Human Ecology	National Institutes of Health	Novel Exercise, Weight-Loss and Dietary Approach to Your Life (NEWDAY)	\$ 19,786
Chordas, Ronald	Center for Urban & Regional Studies	Catholic Diocese of Youngstown	Diocese of Youngstown Strategic Plan FY15	8,389
Pohle-Krauza, Rachael	Human Ecology	American Cancer Society	Novel Exercise, Weight-Loss and Dietary Approach to Your Life (NEWDAY)	19,786
Meyers, Kerry	Mechanical & Industrial Engineering	National Science Foundation	Re-engaging Active Instruction to Support Engineering Undergraduate Progress (RAISEUP)	249,918
Sharma, Suresh	Civil/Environmental & Chemical Engineering	Ohio River Basin Fish Habitat Protection	Impact of Climate Change and Variability on Fish and Aquatic Life in Ohio River Basin	29,513
Krontiris-Litowitz, Johanna	Biological Sciences	National Science Foundation	Engaging Biology Majors in Research while Building Core Competencies and Math Skills	228,524
Wang, Ruigang	Chemistry	National Science Foundation	Designing Structures of Cerium-based Oxides Support	321,304
Manogharan, Guha	Mechanical & Industrial Engineering	National Institute of Standards and Technology	Precision Printed Parts Network (P3N)	495,910
Unger, Darlene	Rich Center for Autism Studies	Autism Speaks Family Services	YSU-Transition Options in Postsecondary Settings for Students with ASD	25,000
Sharma, Suresh	Civil/Environmental & Chemical Engineering	National Institutes for Water Resources (NIWR)	Strategy for Sediment and Algal Bloom Reduction in Lake Erie with Sustainable Energy Production	27,875
Crescimanno, Michael/ Andrews, James	Physics & Astronomy	National Science Foundation	RUI: Smaller Optical Devices Using Coherent Perfect Polarization Rotation	284,835
Wang, Ruigang	Chemistry	National Science Foundation	Cooperative Role of Perovskite-Fluorite Oxides Support on Low Temperature CO Oxidation	435,528
Priour, Donald Jr.	Physics & Astronomy	National Science Foundation	Magnetism and Transport in Disordered Nano-Engineered Materials	353,810
Chordas, Ronald/ Marchionda, Dominic	Center for Urban & Regional Studies	U.S. Department of Commerce	Research, Development and Innovation (RDI) Campus	436,615
Sexton, Gary	WYSU-FM	Corporation for Public Broadcasting	CPB Community Service Grant FY2015	145,521
Brady, Philip	English	Ohio Arts Council	YSU Poetry Center Outreach Program	5,940
Sun, Lin	Electrical & Computer Engineering	National Science Foundation	A Robust and Efficient Solver for Electromagnetic Modeling of Anisotropic and Multi-Scale Structures	357,240
Oder, Tom	Physics & Astronomy	National Science Foundation	Designed Multi-layered Transparent Oxide Systems for Optical Applications	438,097
Oder, Tom	Physics & Astronomy	National Science Foundation through University of Akron	I-Corps Site Mini Grant. F14-22 Semiconductors for High Temperature Applications	2,500
Van Dussen, Daniel	Sociology, Anthropology, and Gerontology	National Institutes of Health through Age Actively	Age Actively	15,000

Wang, Ruigang	Chemistry	U.S. Department of Energy	Understanding Catalysis at the Atomic Level: In-Situ Transmission Electron Microscopy Study in Metal CeO2	869,250
George, John	School of Engineering Technology	Ohio Board of Regents	LABS! Learning Activity Based STEM	257,308
Conner, Brett	Mechanical & Industrial Engineering	Office of Naval Research	Laser Deposition System for Fabricating Impact Resistant Bulk Graded Materials	348,675
Durrell, Patrick	Physics & Astronomy	NASA AISL	CosmoQuest: From the Dome to Data Exploration	13,119
Li, Frank	Electrical & Computer Engineering	National Science Foundation	RF-Lab Micro: Low-cost Classroom Interactive Radio Frequency Electronics Test Bench	41,892
Sharma, Suresh	Civil/Environmental & Chemical Engineering	Coastal Management Assistance Grant	Early Flood Warning System in Lake County	43,125
Manogharan, Guha	Mechanical & Industrial Engineering	National Science Foundation	Development of Large-scale 3DP Extruder	27,067
Mosca, Joseph/ King, Tammy	Bitonte College of Health & Human Services	U.S. Department of Labor through Eastern Gateway Community College	Project Hope-Health Profession Grant to Eastern Gateway Community College	57,600
Becker, Karen	Reading & Study Skills Center	Youngstown Rotary Foundation	Student Government's Water Bottle Refill Station Initiative	600
Howell, Charles	Beeghly College of Education	Great Lakes Community Investments	PAC (Progressing Along the Continuum of Success) and Ready	541,359
Beese, Jane	Educational Foundations, Research, Technology and Leadership	Ohio Department of Education	YCSD Leadership Academy	296,178
Langarica, Alicia	Mathematics and Statistics	City of Youngstown	Youngstown City-Mathematics and Statistics Department Collaboration Grant	67,790
Total Proposals Submitted to External Funding Sources Second Quarter 2014-15: 32				\$ 6,465,054

"Preliminary Proposals"

Dr. Suresh Sharma	Civil, Environmental and Chemical Engr.	Ohio Dept. of Transportation	\$40,000
Dr. Tom Oder	Physics and Astronomy	National Security Science and Engineering Faculty Fellowship	\$3M/5 years



## PROPOSALS FUNDED BY EXTERNAL SOURCES

Second Quarter Report - FY2014-2015

October 1, 2014 - December 31, 2014

PRINCIPAL INVESTIGATOR	DEPARTMENT	FUNDING SOURCE	PROJECT TITLE	AWARD
Abraham, Martin	Provost Office	American Institute of Chemical Engineers	Environmental Progress & Sustainable Energy Office Operation	\$ 24,439
Beiersdorfer, Raymond	Geological & Environmental Sciences	National Ocean Sciences Bowl	2015 Penguin Bowl: Regional Competition of the National Ocean Sciences Bowl	7,000
Brady, Philip	English	Ohio Arts Council	YSU Poetry Center Outreach Program	2,970
Chordas, Ronald	Center for Urban & Regional Studies	Catholic Diocese of Youngstown	Diocese of Youngstown Strategic Plan FY2015	8,389
King, Tammy	Bitonte College of Health and Human Services	U.S. Department of Health and Human Services through Eastern Gateway Community College	Project Hope--Health Profession Grant to Eastern Gateway Community College	14,400
Lee, Sung Hee	Counseling, Special Education & School Psychology	The Sprout Fund	Summer Online Writing Camp	7,500
Licata, Betty Jo	Williamson College of Business Administration	U.S. Small Business Association and Ohio Development Services Agency	The Ohio Small Business Development Center at Youngstown State University	159,950
Licata, Betty Jo	Williamson College of Business Administration	State of Ohio Development Services Agency	Ohio Small Business Development Center at YSU Year 28 (2014-2015)	47,950
Licata, Betty Jo	Williamson College of Business Administration	State of Ohio Development Services Agency	Ohio Small Business Development Center at Youngstown State University, International Trade Assistance Center	60,000
Manogharan, Guha	Mechanical & Industrial Engineering	Ohio Development Services Agency (Third Frontier) through the Youngstown Edison Incubator Corporation	Precision Printed Parts Network (P3N)	168,226
Oder, Tom	Physics & Astronomy	National Science Foundation through the University of Akron	I-Corps Site Mini Grant: F14-022 Semiconductors for High Temperature Applications	2,500

<b>PRINCIPAL INVESTIGATOR</b>	<b>DEPARTMENT</b>	<b>FUNDING SOURCE</b>	<b>PROJECT TITLE</b>	<b>AWARD</b>
Rodabaugh, Stephen	College of STEM	Ohio Board of Regents	Program for Internships and Co-ops in Advanced Manufacturing and Related Industries: Part II (PICAM 2)	171,971
Saunders-Smith, Gail	Teacher Education	Ronald McDonald House Charities	Summer Literacy Camp @ YSU	2,100
Sexton, Gary	WYSU-FM	Corporation for Public Broadcasting	CPB Community Service Grant FY2015	145,521
Total Proposals Funded from External Sources Second Quarter FY2014-15: 14				\$ 822,916

**CURRENT ACCREDITATION ACTIVITY AND  
HIGHER LEARNING COMMISSION UPDATE  
March 2015**

**Summary of recent site visits:**

- The Council for Accreditation of Counseling and Related Educational Programs (CACREP) conducted a site visit in December 2014 and reported the Counseling Program met all 475 standards. The program will receive the official accreditation decision in spring 2015.
- Ten-year accreditation of the Physical Therapy program was reaffirmed by the Commission on Accreditation in Physical Therapy Education (CAPTE) in writing on November 12, 2014.
- The Association to Advance Collegiate Schools of Business (AACSB) Board of Directors has extended the AACSB accreditation of the YSU BSBA and MBA programs.

**Summary of recent accreditation actions:**

- On March 26, 2014, the HLC notified YSU that its Quality Initiative, “Focusing on Retention: Youngstown State University’s Student Success Plan,” has been approved. The Quality Initiative project focuses on student retention through the Student Success initiatives of the strategic plan.

**Details:**

<b>Program</b>	<b>Status</b>
<b>Art</b> National Association of Schools of Art and Design (NASAD)	Self-study submitted March 2006. Site visit conducted April 2006. In Oct. 2006, NASAD granted continued accreditation for the BA in Art History, the BFA in Fine Arts in Studio Arts, and the BS in Education (Art Education) through 2015-16. NASAD approved the MA in Art Education for final listing in November 2011. Next accreditation visit scheduled for 2015-2016. Plan approval applications were submitted to NASAD for painting/printmaking and digital media studio programs. The department is in the process of responding to action reports requested on the two applications. Responses will be submitted by March 1, 2015. The department received the NASAD consultant’s report and has forwarded it to the CCAC dean. The consultant’s comments and recommendations will be used in preparation of the self-study document for the accreditation visit scheduled for spring 2016.
<b>Business</b> AACSB International—The Association to Advance Collegiate Schools of Business	The AACSB Board of Directors has ratified the recommendation to extend the AACSB accreditation of the YSU BSBA and MBA programs. The next review is scheduled for 2019-2020. The WCBA was commended in seven different areas including the co-location of its centers, the physical facility, faculty engagement, leadership team, advisory councils, partnership with the business incubator, and required professionalism course.
<b>Chemistry</b> American Chemical Society (ACS)	An annual report is submitted each August/September. A periodic, five-year program review was submitted in July 2009. Because of reorganization at the ACS, the next review will begin no earlier than Fall 2015.

<p><b>Counseling</b> Council for Accreditation of Counseling and Related Educational Programs (CACREP)</p>	<p>In Jan. 2007, CACREP granted full accreditation to the MS. Ed. in Community Counseling and the MS. Ed. in School Counseling for an 8-year period, until March 31, 2015. CACREP extended the accreditation of Student Affairs to match the accreditation date of the other counseling program options until March 31, 2015. CACREP accreditation team members conducted a site visit in Dec. 2014 and reported the Counseling Program met all 475 standards. The Counseling Program will submit its response to the report in Feb. 2015. The program will receive an official accreditation decision from the CACREP board during Spring 2015.</p>
<p><b>Dental Hygiene</b> American Dental Association</p>	<p>Self-study for continuing accreditation of the Dental Hygiene program submitted in February 2010. Site visit occurred April 27-28, 2010. The program received full accreditation "without reporting requirements." Next site visit is scheduled for 2017.</p>
<p><b>Dietetics Program</b> Academy of Nutrition and Dietetics; Accreditation Council for Education in Nutrition and Dietetics (ACEND)</p>	<p>The five-year midpoint Program Assessment Reports (PAR) for the Coordinated and Didactic Programs in Dietetics and the Dietetic Technician programs are due in July 2015. The next re-accreditation site visit will be in 2020. ACEND has reduced the accreditation cycle from 10 years to seven years for all programs currently applying for accreditation and re-accreditation, which will affect the next re-accreditation. The Dietetic Tech program at Lorain County Community College will be discontinued following the graduation of the current cohort due to low enrollment. Despite intense marketing and recruitment efforts, there have been no new applicants to the program. Given that only five students comprised the first cohort, it was no longer fiscally responsible to continue this program offering.</p>
<p><b>Education and Licensure Programs</b> National Council for Accreditation of Teacher Education (NCATE)</p> <p>Accreditation occurs at the unit (BCOE) level.</p>	<p>The NCATE site visit took place March 20-24, 2010. On November 5, 2010, NCATE sent official notice that accreditation "is continued at the initial teacher preparation and advanced preparation levels." YSU meets all 6 NCATE standards. The next site visit will take place in spring 2017.</p>
<p><b>Emergency Medical Services</b> State of Ohio Department of Public Safety / Division of Emergency Medical Services</p> <p>Commission on Accreditation of Allied Health Education Programs—EMS Professions (CoAEMSP—CAAHEP)</p>	<p>Self-study submitted to the Ohio Department of Public Safety Division of EMS Dec. 2010. Site visit was conducted on May 2, 2011. The EMS program was granted full accreditation for five years. Next self-study will be due to CoAEMSP by May 2015. The site visit will occur in 2016.</p> <p>CoAEMSP awarded the program continuing accreditation on Nov. 17, 2006. The 2011 site team reported no citations at the exit meeting. CAAHEP awarded a full 5-year accreditation. A request for re-accreditation was submitted to CAAHEP on September 29, 2014. It is anticipated that the self-study will be due in May 2015 and the site visit will occur in Fall 2015. The re-accreditation by the Ohio Department of Public Safety will occur concurrently with the CoAEMSP process.</p>
<p><b>Engineering</b> Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology (ABET)</p>	<p>The Electrical Engineering and Mechanical Engineering programs are fully accredited by ABET until September 30, 2020. A request to ABET by January 31, 2019, will be required to initiate a reaccreditation visit. YSU has requested the initiation of a reaccreditation report evaluation for its Civil Engineering and Chemical Engineering programs.</p>

<p><b>Engineering Technology</b> Engineering Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (ETAC-ABET)</p>	<p>ETAC-ABET granted continuing accreditation in August 2012. CCET (AAS), CCET (BSAS), EET (AAS), EET (BSAS), MET (AAS), and MET (BSAS) have been accredited through September 30, 2018.</p>
<p><b>Foreign Languages</b> ACTFL (American Council on the Teaching of Foreign Languages) Recognition for French Education, Italian Education, and Spanish Education</p>	<p>Resubmission of the French Education, Italian Education, and Spanish Education programs to ACTFL in October 2013 has resulted in national recognition for all three programs effective January 31, 2014.</p>
<p><b>Forensic Science</b> American Academy of Forensic Sciences (AAFS)</p>	<p>Application for initial accreditation pending; self-study and site visit to follow.</p>
<p><b>Medical Assisting Technology</b> American Association of Medical Assistants (AAMA) / Commission on Accreditation of Allied Health Education Programs (CAAHEP)</p>	<p>Most recent accreditation July 2004. Reaccreditation self-study was submitted December 27, 2012. The site visit is scheduled for May 6-7, 2013. CAAHEP granted the program continuing accreditation for a full ten years. The next review will occur in 2023.</p>
<p><b>Medical Laboratory Technology</b> National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)</p>	<p>Most recent accreditation in 2006. Reaccreditation self-study was submitted to NAACLS May 1, 2012. Site visit occurred October 15-16, 2012. Program received no citations or recommendations. NAACLS awarded continuing accreditation for the full seven years until April 30, 2020. Submission of the next Self-Study Report will be due April 1, 2019, and a site visit will be scheduled during Fall 2019.</p>
<p><b>Medical Laboratory Science</b> National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)</p>	<p>A letter requesting an initial accreditation application was submitted to NAACLS on October 10, 2014.</p>
<p><b>Music</b> National Association of Schools of Music (NASM)</p>	<p>In June 2012, the NASM Commission on Accreditation voted to continue YSU and the Dana School of Music in good standing. A follow-up report on activities was sent to NASM. In June 2013, the NASM Commission on Accreditation voted to accept the YSU progress report. The next full review will take place in 2020-2021.</p>
<p><b>Nursing</b> Accreditation Commission for Education in Nursing (ACEN)</p>	<p>Self-study for BSN, MSN, and post-Master's certificate submitted January 2014; site visit conducted February 18-20, 2014. Next Evaluation Visit: Spring 2022. Follow-up Report: Fall 2016.</p>
<p><b>Physical Therapy</b> Commission on Accreditation in Physical Therapy Education (CAPTE)</p>	<p>Accreditation report for the Physical Therapy Education program submitted spring 2004. Self-study for master's program submitted February 2004; site visit conducted April 19-21, 2004. Notice of 10-year accreditation received November 19, 2004. Progress report submitted August 15, 2005, and accepted in October 2005; CAPTE continued the accreditation granted the year before. The department submitted an additional progress report in August 2006, and CAPTE found the program in full compliance. In October 2006, the Commission continued the accreditation granted in 2004.</p>

	<p>The MPT has been discontinued. Accreditation now applies to the DPT program approved by the Higher Learning Commission in 2008. A site team from CAPTE visited YSU from April 27-30, 2014, for a self-study visit for the DPT program. The self-study was submitted February 2014 for this visit. The site team gave a favorable report. Ten-year accreditation was reaffirmed in writing on November 12, 2014, with a compliance report due February 15, 2015.</p>
<p><b>Public Health (Consortium of Eastern Ohio Master of Public Health)</b> Council on Education for Public Health (CEPH)</p>	<p>The MPH is offered by a consortium of six institutions, including YSU. Initial accreditation earned in 2003. Site visit occurred April 20-21, 2009. In October 2009, the Council renewed accreditation for seven years, until December 31, 2016. Interim report is due in fall 2011.</p>
<p><b>Respiratory Care and Respiratory Care “Polysomnography Specialty Option”</b> Commission on Accreditation for Respiratory Care (CoARC)</p>	<p>The Polysomnography [Sleep-Study] Specialty Option in the Respiratory Care program received “continuing accreditation” September 19, 2008, and will undergo accreditation review with the respiratory care program. A progress report is submitted annually. Self-study documents for the BS in Respiratory Care and Polysomnography Specialty Option were submitted on August 28, 2010. The site visit for Respiratory Care and Polysomnography took place in February 2011. CoARC granted both programs full continuing accreditation, with no further progress reports due. The next site visit is scheduled for 2018.</p>
<p><b>Social Work</b> Council on Social Work Education (CSWE)</p>	<p>Following submission of reaffirmation materials in April 2012 and an on-campus site visit in October 2012, the Bachelor of Social Work program earned re-affirmed accreditation status in February 2013. This accreditation status remains in effect until February 2021.</p> <p>In February 2012, the Council on Social Work Education granted reaffirmation of accreditation of the Master of Social Work Program. The program remains in accredited status until 2020.</p> <p>In October 2014, Significant Program Changes reports were submitted to the Council on Social Work Education for expansion of the Master of Social Work degree program offerings at Lorain County Community College and Lakeland Community College sites. No further action is necessary until the reaffirmation of accreditation report is due in 2020.</p>
<p><b>Theater</b> National Association of Schools of Theater (NAST)</p>	<p>Self-study submitted summer 2006; site visit conducted October 5-6, 2006. In April 2007, NAST renewed accreditation, commended YSU for addressing program needs and making Theater a “free-standing” unit, and requested a follow-up report. The follow-up report was accepted, and the program is in full compliance. Next</p>

Theater (continued)	renewal and on-site visit will occur in 2016-17. A non-binding site visit in preparation for 2016-17 review is scheduled for May 2014.
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### Update on Higher Learning Commission Accreditation and Assessment of Student Learning

YSU has made and continues to make progress in fostering meaningful and relevant assessment of student learning, including assessment of the general education program:

- **New HLC Expectations on Assessment, General Education, Program Review, Persistence, and Completion:** In July 2013, the Assessment Director and the General Education Coordinator attended a Higher Learning Commission (HLC) workshop titled “Current Expectations for Assessment of Student Learning, General Education, and Students Success.” The HLC has reaffirmed the increasing rigor with which it expects institutions to focus on student learning outcomes. At the conference, the HLC outlined a deepened commitment to student learning with expectations surrounding demonstration of high quality academic programs, institutional practices, and support for student persistence and completion. The clear message was that institutions must place student learning at the center of all they do. This focus on increased rigor and responsibility was presented at Deans’ Council in September and was presented at the Chairpersons’ Meeting in November. At the Deans’ Council meeting, the Provost recommended that a committee be convened to begin initial evaluation of institutional readiness. As part of that initial evaluation, Assessment, General Education, and the Provost’s Office began to discuss and examine a potential make-up of a steering committee for HLC accreditation.
- **General Education:** Progress continues on the two initiatives begun in 2011 to assess the general education program: the ROAD project initiative and the domain assessment initiative.

Progress continues with the ROAD project for assessment of writing in several ways. Most notably, the ROAD rubric was modified so that the ROAD project would align with the Voluntary System of Accountability (VSA), a faculty scoring day for ROAD samples was conducted, and the current results of the ROAD project were presented to faculty and presented at the annual Higher Learning Commission Conference in Chicago. Beginning this year, the VSA allowed the use of artifacts evaluated with American Association of Colleges and Universities (AAC&U) rubrics as a possible assessment method. In the past, YSU has used a separate assessment to fulfill its VSA requirements.

Since the ROAD rubric was largely based upon the AAC&U rubrics, General Education and Assessment saw an opportunity to consolidate two assessments into one. In order to accomplish the use of the ROAD project for VSA assessment, several things needed to be done: first, the ROAD rubric needed to be adjusted so that it covered all the critical thinking items included in the AAC&U rubric; and second, the language of the original writing section of the rubric needed to be modified slightly. A committee of representatives from

each college met and adjusted the ROAD rubric's language accordingly. The updated rubric and the merger of the VSA and ROAD projects were submitted to and passed by YSU's Academic Senate.

Working with Assessment and the YSU Writing Center, General Education conducted a faculty scoring day for samples from the ROAD project. A group of approximately 20 faculty members scored essays from English 1551 and other upper-division courses. The purposes of this exercise were: to improve faculty members' awareness of writing across campus, to start a dialogue about the assessment of writing across campus, and to improve the ROAD project. The results of the scoring day were largely positive, with many faculty members expressing surprise at the level of rigor required by the English 1551 essays.

A group from YSU (Tod Porter, Joseph Palardy, Hillary Fuhrman, and Angela Messenger) presented the ROAD project and its findings at the selective HLC conference in Chicago in April 2014. The title of their presentation was "The ROAD: Assessing Writing and Critical Thinking with VALUE Rubrics." An accompanying paper was published in the conference proceedings and can be found at <http://cop.hlcommission.org/Assessment/porter.html>.

As a follow-up to the ROAD project, Assessment and General Education asked departments in fall 2014 to create curricular maps of writing within their majors. This exercise will promote discussion of writing and writing assessment at YSU. Curricular mapping for critical thinking, oral communications, and quantitative literacy will follow in subsequent semesters.

General Education is also investigating the use of AAC&U's Quantitative Literacy Rubric to evaluate artifacts of student work similar to the use of the ROAD project to assess writing and critical thinking.

The second initiative involves assessment of the general education knowledge domains. In fall 2012, Dr. Milton Cox, a nationally-recognized expert on learning communities, consulted on campus and ran a workshop to help initiate the development of learning communities for general education assessment. His feedback prompted some modifications to the previous YSU timeline. In particular, Dr. Cox highly recommended only one-year learning community commitments from faculty as opposed to the multi-year commitments that were imagined in the originally proposed timeline. A pilot learning community on the improvement and assessment of general education began in January 2013 and finished in May 2013. Despite difficulties in recruitment for the learning community, all of the participants felt that the learning community was a worthwhile experience. A learning community on improving writing on campus is currently being conducted, but it is being facilitated through Faculty Development instead of General Education. This system appears to be a more natural fit for learning communities at YSU. In spring 2014, the General Education Committee began to investigate the possibility of using a course portfolio system to assess and improve general education outcomes as an alternative to the learning community approach.



In addition to the development of learning communities, steps have been taken to include faculty and student perceptions and self-evaluations in the assessment process. Surveys of both faculty and students are being developed. A preliminary version was submitted to a small group of volunteers from various college-level assessment committees. The survey is currently being revised based on their feedback. A number of short, 5-minute surveys will be conducted instead of one long survey. The faculty survey should be distributed in fall 2014, and the student survey should be distributed in spring 2015. Departments may be asked to complete curricular mapping for the general education skills learning outcomes during academic year 2014-2015.

- **Writing Curriculum Maps:** Assessment and General Education have partnered to use existing assessment reporting structures to gather curriculum data on writing outcomes in conjunction with program assessment reports. Undergraduate academic programs were trained in October in a series of 12 college-specific workshops and are in the process of submitting Writing Curriculum Maps, a conceptual curricular mapping tool that outlines the expectations for the development of writing skills for required courses in academic majors. A total of 59 (62%) of all undergraduate programs have submitted writing curriculum maps to date.

This intersection between general education writing and academic program learning outcomes is an area of focus in the HLC Criteria for Accreditation. The aim is to better articulate variations in writing development that are inherent and appropriate to various disciplines, to foster discussions among faculty about curricular expectations around writing communication, and to promote dialogue at the campus level about how to use best practices to improve writing development and achievement. Results from these maps will be used in support of the general education assessment plan and in a spring 2015 writing symposium.

- **Program Assessment Participation:** The Office of Assessment is making good progress in the assessment reporting and review cycles for 2014-15. The co-curricular assessment reporting cycle for 2014 is complete. Co-curricular departments include those with significant student contact but that do not award degrees. Participants have shown a high level of engagement and quality in their reporting: 95% of units reported in 2014, and of those reporting, 95% reported on assessment processes of high quality (evaluated as “exemplary” or “proficient”). Eleven volunteer staff and faculty members performed team reviews of the 21 co-curricular reports with a final review by the Director of Assessment.

Due to development of the writing curriculum maps, academic programs were asked to submit an abbreviated report that focused on the essential areas of student learning data analysis and its use for learning improvements in the 2014-15 reporting year. Reports on student learning outcomes assessment processes for the 155 academic programs were due October 31, 2014. On-time submissions have been excellent this year, with submission by the reporting deadline up by 66%. To date, 86% of academic programs have submitted reports, and an additional 10% were approved for extensions. More than 45 faculty and staff, representing all colleges and four university divisions, have volunteered and reviewed academic reports for evidence of process quality. Although reviews are still in process, currently 75% have been scored as providing evidence of high quality assessment processes.

- **Activities to Promote a Positive Assessment Culture:** A critical part of meeting HLC accreditation expectations is fostering a vital campus community with faculty and staff engaged in meaningful student learning assessment activities. The Office of Assessment meets this expectation in part through programming provided to the campus community. In addition to fulfilling HLC expectations, these activities meet the goals of the 2020 Strategic Plan Cornerstones in the areas of Accountability, Student Success, and Urban Research.

Building a positive culture is fostered by programs to build capacity in assessment and increase the knowledge and skills of faculty and staff in this area. Mini grants, small grants provided to help foster student learning assessment activities, are one way that the Office of Assessment supports this goal. Recent impacts resulting from mini grants include: two grantees recently presented at YSU's Fresh Start Faculty Development Conference in January on topics directly related to their grants: building cultural humility in the classroom (Azi Block, Social Work) and gamification to support student learning (R.J. Thompson, Art). In addition, Financial Aid used mini grant funds to support financial literacy workshops with incoming first-year students. More than 50 workshops reached more than 900 students in the fall 2014 semester addressing student loan default prevention and student retention. Assessment is proud to support outstanding work of faculty and staff grantees that promote both student learning and student success.

### **New Higher Learning Commission Criteria and Accreditation Pathways**

The Board of the Higher Learning Commission approved the new criteria for accreditation (with more focus on institutional transparency, institutional performance, student persistence, and program/degree completion) in February 2012.

At the same time, the HLC approved new "pathways" for accreditation. The pathways replaced the traditional accreditation process for most institutions and changed the schedule for accreditation. On July 26, 2012, the HLC notified YSU that it has been approved to select a preferred accreditation pathway. YSU selected the Open Pathway for reaffirmation of accreditation.

- The **Open Pathway** operates on 10-year cycle and offers more flexibility, fewer comprehensive evaluations, fewer site visits, and less monitoring than the other pathways. The next reaffirmation of accreditation visit will occur in 2017-18.
- The Open Pathway requires an institution to designate one major improvement effort it has undertaken as its **Quality Initiative** for reaffirmation of accreditation. The Quality Initiative takes place between years 5 and 9 of the 10-year Open Pathway Cycle. The Quality Initiative falls entirely outside the Assurance Process.
- Although YSU's Quality Initiative project will be driven primarily by initiatives in Academic Affairs and Student Affairs, it will draw upon resources across the institution in an effort to address student retention. The Academic Affairs division will address student retention through efforts in three primary areas: academic advising, first-year

student orientation, and associate degree / technical preparation programs. The Student Affairs division will address student retention through efforts in three primary areas: continued utilization and implementation of the Starfish Retention System, creation of an administrative position overseeing enrollment and retention, and fine tuning and revision of YSU's conditional admission policy.

- **Assurance Review** accreditation reports will normally be due in years 4 and 10 of the process. Since YSU transitioned into the pathway in year 5 (2012-13), YSU will not have an assurance review report due at year 4. The assurance review in 2017-18 will include the site visit for reaffirmation of accreditation.
- The annual reports, plus the quality initiative, plus the assurance report and visit in 2017-18 will replace the former comprehensive evaluation process. According to the HLC, the assurance report, or "self-study," will be more concise than the old-style self-studies and will not necessarily involve the entire campus as in the past.

**AGENDA ITEM: C.2.a.2.**

**AGENDA TOPIC:** Resolution to Approve Bachelor of Science in Biochemistry Degree

**STAFF CONTACT(S):** Dr. Martin A. Abraham, Interim Provost and Vice President for Academic Affairs, Dr. Timothy Wagner, Chair of the Department of Chemistry, and Dr. Michael Serra, Department of Chemistry

**BACKGROUND:** The Ohio Occupational Wages and Employment guide predicts jobs in the fields of biochemistry and biophysics will increase 23 percent from 2010 to 2020. An individual with a degree in biochemistry can work in basic and applied research, education, healthcare, technical/scientific writing, intellectual/patent law, or bioinformatics. Youngstown State University has the staff and facilities to add a degree in Biochemistry with no obstacles. A survey of incoming students indicates a need for this degree program.

**SUMMARY AND ANALYSIS:** Based upon the study conducted by the Department of Chemistry, the availability of staff and resources, and the prediction that a degree in Biochemistry would graduate 10-15 students per year, it is prudent for Youngstown State University to apply to the Ohio Board of Regents to offer a Bachelor of Science degree in Biochemistry.

**RESOLUTION:**

**RESOLUTION TO APPROVE  
BACHELOR OF SCIENCE DEGREE IN BIOCHEMISTRY**

**WHEREAS,** a Bachelor of Science in Biochemistry degree will serve the needs of people in Northeast Ohio and Western Pennsylvania who wish to develop an excellent foundation for careers in bioscience-related research, health care, life science, and forensic science; and

**WHEREAS,** the program will be an excellent foundation for students to pursue graduate programs in research and development in the private sector, in academia, and in health-related fields such as medicine, dentistry, or pharmacy; and

**WHEREAS,** the program will reside in the Department of Chemistry; and

**WHEREAS,** the Department of Chemistry possesses the essential facilities to allow for the addition of said program; and

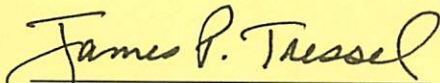
**WHEREAS,** Youngstown State University has faculty members with the requisite credentials to offer this degree; and

**WHEREAS,** it is the intention of the Department of Chemistry to seek accreditation for the degree through the professional organization ASBMB (American Society for Biochemistry and Molecular Biology); and

**WHEREAS**, the fiscal resources for the administration of this degree currently exist in the College of Science, Technology, Engineering and Mathematics;

**NOW, THEREFORE, BE IT RESOLVED**, that the Board of Trustees of Youngstown State University approves the offering of the Bachelor of Science in Biochemistry degree subsequent to the approval of said degree by the Ohio Board of Regents.

**RECOMMEND APPROVAL:**

  
James P. Tressel, President

**Board of Trustees Meeting**  
**March 11, 2015**  
**YR 2015-**

**Executive Summary for the Proposal of the  
Bachelor of Science in Biochemistry Degree**  
Offered and Administered by the Department of Chemistry,  
College of Science, Technology, Engineering, and Mathematics

### **Overview**

The Department of Chemistry at Youngstown State University is proposing to establish a Bachelor of Science in Biochemistry degree. This degree will expand the opportunities for YSU students and require no extra expenditures on the part of the university. The department already has the faculty, facilities, foundation in research, and the necessary coursework to create an excellent program. Offering a B.S. in Biochemistry will formalize courses already in place at YSU.

Although biochemistry was established as a separate discipline slightly more than a century ago, its roots run back centuries. It has become a fundamental STEM discipline – as fundamental a STEM discipline as biology, chemistry, physics, and mathematics. Youngstown State University's nearby sister institutions already have an established degree in biochemistry, which places YSU at a disadvantage in attracting students interested in the life sciences. The addition of a B.S. in Biochemistry degree will address this problem at YSU.

Biochemistry will serve students interested in the life sciences, especially those students interested in pursuing degrees in health-related fields or those who will seek post-baccalaureate degrees. According to "Best Jobs in America 2013" posted by CNNMoney (<http://money.cnn/pf/best-jobs/2013>), Biochemist was ranked 67<sup>th</sup> as one of the best jobs with an average income of \$70,700 and a potential growth rate of 30.8%. Careers, which would heavily rely on knowledge in biochemistry, were also highly ranked, e.g., general surgeon (ranked 4<sup>th</sup>, average salary, \$288,000), physician assistant (ranked 21<sup>st</sup>, average salary \$96,200), optometrist (ranked 27<sup>th</sup>, average salary, \$108,000), and family physician (ranked 41<sup>st</sup>, average salary, \$172,000).

### **Program Description**

The Bachelor of Science in Biochemistry degree is recommended for those students interested in integrating the subjects of biology and chemistry. The cross-disciplinary nature of the degree provides students with a good foundation for careers in research and development in the private sector and in academia. Many students will continue their education in graduate schools or in health-related fields such as medicine, dentistry, or pharmacy. The degree may be earned in eight semesters if students average 16 hours per semester.

## Rationale

Students are central to the mission of YSU. Developing a degree in biochemistry will better serve our students in a number of ways. It will expand the educational offerings in an already strong department in the STEM College. A degree in biochemistry provides an excellent foundation for students seeking careers in bioscience-related research, health care, and forensic science. YSU currently offers a Master's Degree in Chemistry with biochemistry as one option. In the future, YSU could explore the possibility of a 3 + 2 program in which a student could earn the undergraduate degree in three years and the graduate degree in two years. This program would provide a seamless transition between the undergraduate and graduate programs.

According to the "Ohio Bioscience Growth Report" of 2012, the state of Ohio has nearly 1,300 bioscience-related organizations that provide essential services or are involved in manufacturing, or research. Ohio's bioscience industry generated a \$4.58 billion payroll in 2011. Northeast Ohio is home to about 42% of the state's bioscience locations. In addition, in 2011, Ohio companies attracted nearly \$2.4 billion in funding from a variety of sources.

Students graduating from YSU with a B.S. in Biochemistry will have excellent opportunities for employment in one of the state's growing industries. Not only will YSU students obtain a good foundation in the principles of biology and chemistry that are essential to understanding biochemistry, but YSU will also give them multiple experiences in the application of the tools necessary for conducting bioscience-related research through our laboratory courses. Students will finish their studies with a capstone course in which they will conduct original research under the guidance of a professor in either the biology or chemistry departments.

In summary, the degree perfectly meshes with the mission of the university. It will expand students' educational options, provide students training to go on to post-baccalaureate programs in research and medicine, and develop students with skills in areas that are important to the economic growth of the state.

## Courses

Course (name/number)	No. of credit hours (s.h.)	Major/ Core/ Technical	General Education	Elective	OTM, TAG or CT <sup>2</sup> equivalent course	New/Existing Course
CHEM 1515/L/R Gen. Chem. 1/lab/recitation	5	X				Existing
CHEM 1516/L/R Gen. Chem. 2/lab/recitation	5	X				Existing

Course (name/number)	No. of credit hours (s.h.)	Major/ Core/ Technical	General Education	Elective	OTM, TAG or CT <sup>2</sup> equivalent course	New/Existing Course
CHEM 3719/L/R Org. Chem. 1/lab/recitation	5	X				Existing
CHEM 3720/L/R Org. Chem. 2/lab/recitation	5	X				Existing
CHEM 3739 Phys. Chem. 1	4	X				Existing
CHEM 3785/L Biochem. 1/lab	4	X				Existing
CHEM 3786 Biochem. 2	3	X				Existing
CHEM 5876 Enzyme Analysis	2	X				Existing
CHEM 4850 Chemistry Research	1	X				Existing
CHEM 4850L Chemistry Res. Lab	2	X				Existing
BIOL 2601/L Gen. Biol. 1/lab	4	X				Existing
BIOL 3702/L Microbiology 1/lab	4	X				Existing
BIOL 3711 Cell Biology	3	X				Existing
BIOL 3721 Genetics	3	X				Existing
Math 1571 Calculus 1	4	X				Existing
Math 1572 Calculus 2	4	X				
STAT 3717 Statistical Methods	4	X				Existing
STAT 3743 Probability and Stat.	4	X				Existing
PHYS 2610/L Physics 1/lab	5	X				Existing
PHYS 2611/L Physics 2/lab	5	X				
CHEM 3729	3			X		Existing
CHEM 3764	3			X		Existing



<b>Course (name/number)</b>	<b>No. of credit hours (s.h.)</b>	<b>Major/ Core/ Technical</b>	<b>General Education</b>	<b>Elective</b>	<b>OTM, TAG or CT<sup>2</sup> equivalent course</b>	<b>New/Existing Course</b>
CHEM 5821	3			X		Existing
CHEM 5822/L	4			X		Existing
CHEM 5832/L	3			X		Existing
BIOL 4800/L Bioinformatics	4			X		Existing
BIOL 4801/L Environ. Microbiology	4			X		Existing
BIOL 4829 Microbial Physiology	3			X		Existing
BIOL 4836/L Cell Biol.: Mol. Mech.	3			X		Existing
BIOL 4837 Cell Biology: Protein Biology Laboratory	1			X		Existing
BIOL 4890 Molecular Genetics	3			X		Existing
BIOL 4890L Mol. Genetics Lab	1			X		Existing
BIOL 5840 Adv. Microbiology	3			X		Existing

### Program Sequence

Time period	Curriculum component	Time period	Curriculum component
<b>Year 1</b>	<b>Courses/Activities</b>	<b>Year 1</b>	<b>Courses/Activities</b>
<b>Fall Semester</b>	CHEM <u>1515/L</u> , Gen. Chem. 1 /Lab	<b>Spring Semester</b>	CHEM <u>1516/L</u> , Gen. Chem. 2 /Lab
	CHEM <u>1515R</u> , Recitation Gen. Chem. 1		CHEM <u>1516R</u> , Recitation Gen. Chem. 2
	MATH <u>1571</u> , Calculus 1		MATH <u>1572</u> , Calculus 2
	ENGL <u>1550</u> , Writing 1		ENGL <u>1551</u> , Writing 2
	Gen. Ed. Requirement (GER)		BIOL <u>2601/L</u> , Molecules and Cells
<b>Time period</b>	<b>Curriculum component</b>	<b>Time period</b>	<b>Curriculum component</b>
<b>Year 2</b>	<b>Courses/Activities</b>	<b>Year 2</b>	<b>Courses/Activities</b>
<b>Fall Semester</b>	CHEM <u>3719/L</u> , Org. Chem. 1 /Lab	<b>Spring Semester</b>	CHEM <u>3720/L</u> , Organic Chem. 2/Lab
	CHEM <u>3719R</u> , Recitation Org. Chem. 1		CHEM <u>3720R</u> , Recitation Org. Chem. 2
	CHEM <u>2604/L</u> , Quant. Analysis /Lab		PHYS <u>2611/L</u> , Gen. Physics 2/Lab
	PHYS <u>2610/L</u> , Gen. Physics 1/Lab		STAT <u>3717</u> or <u>3743</u>
<b>Time period</b>	<b>Curriculum component</b>	<b>Time period</b>	<b>Curriculum component</b>
<b>Year 3</b>	<b>Courses/Activities</b>	<b>Year 3</b>	<b>Courses/Activities</b>
<b>Fall Semester</b>	CHEM <u>3785</u> , Biochemistry 1	<b>Spring Semester</b>	CHEM <u>3786</u> , Biochemistry 2
	CHEM <u>3785L</u> , Biochemistry 1 Lab		CHEM <u>5876</u> , Enzyme Analysis
	BIOL <u>3721</u> , Genetics		CHEM <u>3739/L</u> , Physical Chem. 1 /Lab
	BIOL <u>3702/L</u> , Microbiology		BIOL <u>3711</u> , Cell Biology
	Upper-level CHEM elective		<b>GER</b>
	<b>GER</b>		
<b>Time period</b>	<b>Curriculum component</b>	<b>Time period</b>	<b>Curriculum component</b>
<b>Year 4</b>	<b>Courses/Activities</b>	<b>Year 4</b>	<b>Courses/Activities</b>
<b>Fall Semester</b>	CHEM <u>4850</u> , Chemistry Research	<b>Spring Semester</b>	CHEM <u>4850L</u> Capstone Res. Lab
	Upper-level CHEM and/or BIOL electives		Upper-level CHEM and/or BIOL electives
	<b>GER</b>		<b>GER</b>
	GER Speech – COMST 1545		<b>Electives</b>

## Fiscal Impact Statement

### B.S. in Biochemistry

	Year 1	Year 2	Year 3	Year 4
	FY16	FY17	FY18	FY19
<b>Projected Enrollment</b>				
Head-count (12+) full time (fall/spring avg unduplicated)	2	6	11	17
Head-count part time (fall/spring avg unduplicated)	-	-	-	-
Full Time Equivalent (FTE) enrollment annualized (no summer enrollment)	2.07	6.07	11.17	17.43
<b>Projected Program Income</b>				
Tuition (paid by student or sponsor)	19,200	57,500	106,100	165,000
Expected state subsidy	N/A	N/A	N/A	N/A
Externally funded stipends				
Other income (describe below)				
<b>Total Projected Income</b>	\$ 19,200	\$ 57,500	\$ 106,100	\$ 165,000
<b>Program Expenses</b>				
New Personnel				
New Faculty				
Full <u>Current faculty sufficient</u>	\$ -	\$ -	\$ -	\$ -
Part Time <u>no new sections needed</u>	\$ -	\$ -	\$ -	\$ -
Non-instruction (indicate role(s) in narrative section below)				
Full time (none)	-	-	-	-
Part time (none)	-	-	-	-
New facilities/space renovation (if applicable, describe below)	-	-	-	-
Tuition Scholarship Support (if applicable, describe below)				
	-	-	-	-
University stipend support (if applicable, describe below) <sub>2</sub>	-	-	-	-
Additional library resources (if applicable, describe below)	-	-	-	-
Additional technology or equipment (if applicable, describe below)	-	-	-	-
Other expenses (describe below)	-	-	-	-
(e.g. waived tuition and fees, travel, office supplies, accreditation costs)				
<b>Total Projected Additional Expense</b>	\$ -	\$ -	\$ -	\$ -
<b>Net Program Income or Expense</b>	<b>\$ 19,200</b>	<b>\$ 57,500</b>	<b>\$ 106,100</b>	<b>\$ 165,000</b>
<i>without SSI considered</i>				

Assumptions:

0% Tuition Increase

5 students in the program year one. 12 students by year four.

50% of students in the program will be NEW students (others from CHEM or BIO major)

25% out of state students

SSI is not calculated or considered in fiscal statement due to potential flat/decreased allocation.

No additional expenses are anticipated.

**ACADEMIC PROGRAMS UPDATE  
MARCH 2015**

**1. Undergraduate Program Development:**

**Undergraduate Program Actions Requiring Board of Trustees Action and/or OBOR Notification or Approval**

The Ohio Board of Regents (OBOR) is continuing to revise its approval processes for undergraduate program proposals. Since the last set of YSU Board of Trustees meetings, OBOR has approved the following undergraduate program changes:

- YSU received approval to offer the Bachelor of Science in Education—Early Childhood License (P-3) at Lakeland Community College.

**2. Graduate Program Development:**

*A new proposal (Program Development Plan or PDP) for graduate programs must be approved internally by YSU's Graduate Curriculum Committee and Graduate Council before it is presented to the Board of Trustees Academic Quality and Student Success Committee as an information item. The PDP is then forwarded to the Regents Advisory Committee on Graduate Study (RACGS) for comment, and a full program proposal is prepared, in response, if there are no serious objections. The full proposal must be reviewed by the internal curriculum process and then go to the Board of Trustees for action and approval. The proposal then goes to RACGS for a second review and in-person presentation. If RACGS recommends the program for approval—and after YSU Board of Trustees approval—it goes to the Chancellor's staff, which makes a recommendation to the Chancellor based on RACGS review and public comments. The Chancellor's signature is the final step of the approval process. Board of Trustees approval is required prior to any final decision by the Chancellor's office.*

- A program development plan (PDP) for a **Master of Fine Arts in Interdisciplinary Visual Art** has been reviewed by RACGS, and responses to comments are being composed.
- A PDP for a **Master of Athletic Training** completed the campus curriculum review process and will soon be sent to RACGS for comment.
- The **Master of Accountancy** has been reviewed at the college and dean level and will begin the curriculum review process.
- The program name change from **Environmental Studies** to **Environmental Science** is currently under review by RACGS.
- The **4 + 1 Master of Science in Mathematics** has been approved.

## 2015-16 Research Professorship Awards

Name	Department	Title of Project	WH Awarded
Dr. Rebecca Badawy	Management	Exploring the Relationship between Impostor Phenomenon and Individual Performance	6
Dr. Mona Bahl	Management	Understanding Performance Effects of Board Characteristics and Firm Ownership in Transition Economies	9
Dr. Pedro Cortes	Civil/Environmental & Chemical Engineering	The Structure-Property Relationships of 3-D Multilayered Metal-Ceramic Composites Fabricated Through an Additive Manufacturing Process	6
Dr. Lauren Cummins	Teacher Education	21st Century Skills and the Digital Teacher & Learner	6
Dr. Patrick Durrell	Physics & Astronomy	Hubble Space Telescope Observations of the Outer Disk of M101	6
Dr. Kendra Fowler	Marketing	Online Service Benefits Impact on Relationship Strength, Loyalty, and Commitment	9
Dr. Weiqing Ge	Physical Therapy	The Effects of IASTM on skin and its sensation	6
Dr. Douglas Genna	Chemistry	Stabilization of Primary Carbonations: New Reaction Pathways in Anionic Metal Organic Frameworks	9
Dr. Stacy Graber	English	Meditation on Meaning: Janne Teller's YA Novel Nothing as Existential Reflection and Catalyst to Inquiry	9
Dr. Lucas Hardy	English	Theologies of Pain: The Human Body and Spiritual Conversion in American Puritanism	6
Dr. Michael Jerryson	Philosophy & Religious Studies	Interdisciplinary Bridges: Buddhism and Politics	6
Dr. Holly Martin	Civil/Environmental & Chemical Engineering	Coating Magnesium Alloys with Polytetrafluoroethylene to Prevent Corrosion	9
Dr. Sara Michaliszyn	Human Performance & Exercise Science	Race-related Biological Differences in Pregnant African American and Caucasian Women: Does it Contribute to Obesity Risk in Infants	9
Dr. Diana Palardy	Foreign Languages	Sinister Spaces or Perfect Places: Dystopian/Utopian Imaginaries in Contemporary Spanish Fiction	6
Dr. Bonita Sharif	Computer Science & Information Systems	Comparing Eye Tracking and Interaction History in Software Engineering Tasks	9
Dr. Suresh Sharma	Civil/Environmental & Chemical Engineering	Early Flood Warning System for Community Safety against Flood Hazard Using High Resolution Datasets: A Case Study of Coastal Region of Lake County, Ohio	9
Dr. Issariya Sirichakwal	Management	Managing Supply Chain Relationships Under Competition: An Empirical Study	6
Dr. Virgil Solomon	Mechanical & Industrial Engineering	Characterization of PL/crystallographic Imperfections Relationship in ZnO Thin Films Using AEM Techniques	6
Dr. Doori Song	Marketing	How to Make Better Decisions: The Relative Influence of Multiple Sources on Consumers' Biased Information Processing	9
Mr. Jonathan Sperry	Art	Expressive Data	6
Dr. Ruigang Wang	Chemistry	Designing Structures of CeO <sub>2</sub> Support in Oxide-Supported Metal Heterogeneous Catalysts	6
Dr. Feng Yu	Computer Science & Information Systems	Deriving Fast Approximation for Complex Queries on Big Data	9