

Agendum
Oakland University
Board of Trustees Formal Session
October 31, 2011

**FISCAL YEAR 2013 FIVE-YEAR CAPITAL OUTLAY PLAN AND
FISCAL YEAR 2013 CAPITAL OUTLAY PROJECT REQUEST**

A Recommendation

1. **Division and Department:** Finance and Administration, Facilities Management, and Capital Planning and Design

2. **Introduction:** Annually, Oakland University (University) is required to submit its Five-Year Capital Outlay Plan (Plan) and top priority Capital Outlay Project Request (Project Request) to the Michigan Department of Management and Budget. The submissions must include a five-year capital plan, long-term projections for enrollment, staffing and program development, and other information designed to help the State understand the University's capital needs.

Colleges and universities submit only their top priority capital outlay request. The University is submitting as its top priority a project to construct an Engineering Center and renovate vacated space in Hannah Hall. The Engineering Center has planning authorization approval from the State of Michigan. Draft planning documents are due to the State Budget Office November 4, 2011 for consideration of construction authorization. Until the University receives construction authorization, the Engineering Center must remain as the University's top priority capital outlay request. Attachment A is the proposed Plan. Attachment B is the proposed Project Request.

3. **Previous Board Action:** On December 9, 2010 the Board of Trustees (Board) approved the Fiscal Year 2012 Five-Year Capital Outlay Plan and Fiscal Year 2012 Capital Outlay Project Request.

4. **Budget Implications:** Funding to address a portion of the plant renewal items identified in the Plan is budgeted annually. Funding for the University's Project Request would be provided through capital appropriations (maximum of 75% of project costs), fund raising, reserves, and/or debt.

5. **Educational Implications:** Maintaining the University's capital assets and planning for future capital needs has a significant impact on the environment in which the University's mission is fulfilled.

6. **Personnel Implications:** None.

7. **University Reviews/Approvals:** The Plan is prepared and updated by Capital Planning and Design and reviewed by Facilities Management, the Vice President for Finance and Administration, and President. The Project Request followed the same process and was also reviewed and endorsed by Academic Affairs leadership.

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8. Recommendation:

RESOLVED, that the Board of Trustees approves the submission of the attached Fiscal Year 2013 Five-Year Capital Outlay Plan and Fiscal Year 2013 Capital Outlay Project Request to the State of Michigan, State Budget Office, as representative of Oakland University's capital budget needs.

9. Attachments:


- A. Fiscal Year 2013 Five-Year Capital Outlay Plan
- B. Fiscal Year 2013 Capital Outlay Project Request

Submitted to the President
on 10/21, 2011 by



John W. Beaghan
Vice President for Finance and Administration
and Treasurer to the Board of Trustees

Recommended on 10/21, 2011
to the Board of Trustees for Approval



Gary D. Russi
President

ATTACHMENT A

OAKLAND UNIVERSITY

**Fiscal Year 2013
Five-Year Capital Outlay Plan**

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I. Mission Statement

“Oakland University has a three-fold mission. It offers instructional programs of high quality that lead to degrees at the baccalaureate, master’s, and doctoral levels as well as programs in continuing education; it advances knowledge and promotes the arts, through research, scholarship, and creative activity; and it renders significant public service. In all its activities, the University strives to exemplify educational leadership.”

II. Instructional Programming

Oakland University (Oakland, University or OU) is a doctoral/research University located in Rochester, Michigan, within Oakland County. Through unique and distinctive academic experiences, Oakland is preparing students to make meaningful and substantial contributions to the workplace, academia and the community.

An Engaged University

Oakland University is the only comprehensive, doctoral-level university located in Oakland County, Michigan. Recognized as one of the country’s 83 doctoral/research universities by the Carnegie Foundation for the Advancement of Teaching, the University offers students opportunities to work directly on research projects with expert faculty.

Through a multitude of partnerships with hospitals, Fortune 500 companies, individuals, cities, government agencies, and educational institutions, Oakland helps communities solve problems and build thriving, sustainable businesses. These associations reward students with internship and co-op opportunities and provide University researchers access to the latest technology tools. Oakland’s leadership with these partnerships also significantly impacts economic development efforts and commercialization opportunities in the region.

In August 2011, Oakland, in partnership with Beaumont Hospitals, brought the first M.D.-granting medical school to Oakland County and the first new medical school started in Michigan in a generation. It will boost our local and regional economies by generating new jobs and attracting medical, business and academic leaders from around the world and aid in our transition from a manufacturing to a knowledge-based economy.

The medical school will train physicians to practice 21st century medicine with an emphasis on research, technology, preventive and pre-symptom medicine, treatment and management of chronic disease, and teamwork. It will promote applied research “from the bench to the bedside,” assuring that scientific discoveries and new technologies are able to directly benefit patients in the most rapid timeframe possible.

Oakland has a strong undergraduate program in the basic sciences and is widely recognized for excellence in the biomedical sciences and other health care related programs. It has a School of Nursing, a School of Health Sciences, a renowned Eye Research Institute, and

highly regarded programs in bioengineering, informatics and nanotechnology as well as chemical toxicology, health and environmental chemistry, medical physics and biological communication.

Oakland University's other professional schools, including the Schools of Business Administration, Education and Human Services, Engineering and Computer Science, and the College of Arts and Sciences have been recognized nationally for various accomplishments.

A Leading University

Oakland is committed to providing undergraduate and graduate education marked by academic excellence, unique opportunities, and beyond-the-classroom experiences in preparing future leaders, advancing research frontiers and engaging with business, educational and community partners for the benefit of the region and beyond.

Through the dedication of inspired faculty, Oakland prepares students to make meaningful and substantial contributions to society and the workplace by producing graduates who can think critically and creatively, communicate effectively, navigate and use information technology, and interact well with others.

In addition to equipping graduates with a broad base of knowledge and top-notch intellectual and experiential opportunities, Oakland is equally dedicated to the development of students in all aspects of their lives. Through a carefully thought out collection of campus life experiences, the University gives students opportunities to conduct research and participate in internship and co-op experiences.

A Growing University

Oakland is among the fastest growing public universities in the state with student enrollment projections through 2020 including:

- continued enrollment growth
- increased enrollment of minority students
- greater outreach activities and advanced technology-assisted education delivery

Over the last 12 years, the University has realized a 32 percent increase in enrollment and has added more than 65 new degree programs since 1995 to strengthen educational offerings.

Oakland's first-ever comprehensive campaign, officially launched in the spring of 2005, exceeded its goal of \$110 million by raising \$111.8 million one year ahead of schedule. Funds will be used to support student scholarships, faculty chairs and professorships, research endowments, academic programming and capital enhancements.

Oakland has continued to keep pace with growth by providing new and advanced academic, research and support facilities, such as the:

- Science and Engineering Building
- renovated Hannah Hall
- Elliott Hall of Business and Information Technology
- Pawley Hall of Education and Human Services
- renovation and expansion of the Oakland Center
- renovation of O'Dowd Hall to provide additional classrooms and space for the Oakland University William Beaumont School of Medicine
- Recreation Center
- renovation and restoration of Meadow Brook Hall
- renovation and technology upgrades of South Foundation Hall
- Student Apartments
- The Honors College
- Parking structure
- Student Technology Center
- OU Writing Center
- OU Anton/Frankel Center
- Human Health Building, which broke ground in April 2010, will be located on the northwest corner of campus and is targeted for completion in 2012.

A Campus Master Plan accounts for expected growth and includes:

- recommendations for additional parking
- infrastructure improvements
- the identification of potential building sites
- a research and development park
- a new humanities facility
- future phases of student housing

Several upgrades, renovations and technological improvements to various classrooms, laboratories and common areas were recently accomplished. Primary laboratories to receive complete renovation were in Chemistry, Biology and Physics, including labs in Nursing, Art and Art History and Physical Therapy – all programs which have experienced large increases in student enrollment or are key components of Oakland biomedical and health care academic offerings.

Applied Research and Economic Development

Oakland offers knowledge resources and programs that help companies grow. With its research labs, facilities, faculty and students, the University assists companies in transforming ideas into new business developments, turning dreams into reality and giving vitality to vision. The University is committed to assisting start-ups and spin-outs to locate and secure technology development, business planning and capital acquisition as well as providing opportunities for the licensing of Oakland University's intellectual assets. To foster emerging discoveries, the University features several noted research centers, including the:

- OU SmartZone Business Incubator
- Fastening and Joining Research Institute (FAJRI)
- Center for Robotics and Advanced Automation
- Eye Research Institute (ERI)
- Center for Integrated Business Research and Education (CIBRE)
- Center for Biomedical Research
- Prevention Research Center
- Center for Autism Research, Education and Support (OUCARES)

OU SmartZone Business Incubator: A collaboration with Automation Alley, the Great Lakes Interchange, the Michigan Economic Development Corporation, Oakland County and the City of Rochester Hills, OU INC provides the expertise and skills of faculty, students and corporate partners to area businesses in a variety of capacities, including entrepreneurial resources and business solutions to develop intellectual property.

OU's Macomb incubator now has a Sterling Heights facility, which is a joint venture between Oakland University, Macomb County and the City of Sterling Heights.

Fastening and Joining Research Institute (FAJRI): A collaboration between Oakland University, the U.S. Congress, the U.S. Army Tank Automotive Research and Engineering Center (TARDEC), the National Science Foundation, and Chrysler Corporation, FAJRI is an externally funded academic, nonprofit research facility that is solely dedicated to exploring fundamental and applied research to develop and disseminate new technology for the fastening and joining of materials: metals, composites, polymers, and bio materials.

Center for Robotics and Advanced Automation: Funded by the National Science Foundation, the Big Three automotive companies and the Department of Defense, the center works on smart control technology with industrial and defense applications, intelligent robotics, homeland security technology, suspension systems, digital shearography, and global satellite communication technology and systems.

Eye Research Institute (ERI): This unique center of ophthalmic research collaborates with the William Beaumont Hospital Ophthalmology Department on research and provides a joint Ophthalmology residency and fellowship program. Since 1968, ERI scientists have received more than \$50 million from private and federal health agencies.

Center for Biomedical Research: This center provides core facilities and pilot funding for the applied biomedical research efforts of Oakland University's life scientists. Key research includes eye diseases, chemical toxicology, medical physics and biological communication.

Partnerships

Oakland has leveraged its unique Auburn Hills / Rochester Hills / Rochester location in the heart of Michigan's technology and automotive corridor by forging strategic partnerships with hospitals, Fortune 500 and international companies, individuals, cities, government agencies, and educational institutions from Southeastern Michigan to other countries. The benefits of these associations are far reaching: students are rewarded with internship and co-op opportunities, University researchers have access to the latest technology tools, and the region benefits through new business opportunities and a stronger economy.

M2O: Oakland University and Macomb Community College implemented the state's first joint admission, concurrent enrollment program called M2O. One application, coordinated advising and financial aid, and expanded course selection make it easy for those who live or work in Macomb County to seamlessly complete their associate and bachelor's degrees.

O2O and SC2O: In 2010, Oakland University announced two new joint admission, concurrent enrollment programs with Oakland Community College (OCC) and St. Clair County Community College (SC4). The partnerships are the second and third of their kind in Michigan, the first being M2O.

Eugene Applebaum College of Pharmacy and Health Sciences: An alliance between Oakland University's School of Health Sciences and Wayne State University provides Oakland's undergraduates a unique opportunity to earn a doctorate in pharmacy. Students can earn their bachelor's degree at OU taking pre-pharmacy courses. Their senior year at OU, students take pharmacy classes at WSU. Their senior year at OU is also their first year at WSU, giving students the opportunity to complete a doctorate program in seven years instead of eight, saving time and money.

Crittenton Hospital Medical Center:

Crittenton Hospital Medical Center has funded a \$2 million endowed professorship in Oakland University's School of Nursing that will change the clinical education and training of nursing students. The nursing professorship will conduct patient-focused research on the science and best practices of nursing, an area that has not received much attention to date. Students in the new program will conduct all of their clinical rotations at Crittenton Hospital Medical Center using the RBC Model. Relationship Based Care moves from an individual expert dynamic to one of engaging the patient, identifying options, relaying experiences and empowering the patient and his/her family to make the best treatment decisions.

OU Anton/Frankel Center:

Oakland University expanded its reach in Macomb County by opening the two-story Towne Square Building in downtown Mt. Clemens. Newly named the Oakland University Anton/Frankel Center, the facility offers OU 25,422 square feet of space to house classrooms, offices for advising, student support services, faculty and staff as well as an Education and Community Outreach Center. Macomb County investors and developers Gebran (Gabe) S. Anton and his Towne Square Associates partner, Stuart Frankel, donated the building, which is valued at approximately \$2 million. The new facility will help Oakland University advance its commitment to bringing exceptional academic opportunities to the people of Macomb County.

The University of Botswana: Oakland University's Department of Counseling in the School of Education and Human Services, in partnership with the University of Botswana (UB), provides student and faculty exchanges, video conferences and partnerships in research, scholarship, teaching and service.

Israel's Max Stern Academic College: Oakland University offers global experiences for students and faculty through myriad overseas programs including a new partnership with Max Stern Academic College in Emek Yezreel, Israel. Students and faculty on both campuses will experience different cultures through research opportunities, academic coursework and student life.

Cooley Law School: Oakland University and Cooley Law School have enjoyed a successful partnership since 2002, when Cooley first offered its Juris Doctor (JD) law program on Oakland's campus. The recently opened Thomas M. Cooley Law School-Auburn Hills campus is the exclusive educational partner law school of Oakland University.

The Pawley Learning Institute: Established through a gift from Dennis Pawley, OU alumnus and former chair of the OU Board of Trustees, the Pawley Learning Institute provides instruction and research on concepts and training that improve organizational practices in business, education and public service sectors.

Applied Technology in Business: This program combines a rigorous education with hands-on training in the application of information technology in business. Students earn a scholarship along with a minor degree in Applied Technology in Business while tackling projects on-site at sponsoring organizations over the course of two years.

St. John Health Providence System at Riverview: Oakland continues to find new ways to fill Michigan's allied health professional and nursing pipeline. Through this partnership, students in the Patient Care Technician, Certified Nursing Assistant, Licensed Practical Nurse and Accelerated Second Degree Nursing programs take lecture and clinical laboratory courses at the Riverview Institute of Oakland University, the former St. John Riverview Hospital in Detroit.

Undergraduate research opportunities:

More than 100 undergraduate students have earned Undergraduate Student Research Awards this year, working closely with faculty mentors to gain valuable hands-on research experience. The awards provide up to \$1,500 and travel opportunities to present student research results at regional, national or international conferences.

Instructional Technology

Access to user friendly instructional technology resources in the classrooms are a standard expectation of Oakland's faculty and students. All general purpose classrooms and a growing number of conference rooms and labs are now equipped with enhanced instructional technology features.

All general purpose classrooms are equipped with the following features:

- Multimedia workstation containing: a PC computer hardwired to campus network; a digital document camera; an electronic whiteboard; a rack mounted DVD player; an interface to plug in a user provided laptop computer, an interface to plug in an accessory analog audio/video device; speaker system; and an electronic media control system
- Ceiling mounted video/data projection system connected to the multimedia workstation
- Wireless network access
- A lecture capture system (Panopto) is available to faculty who would like to provide recordings of their classroom instruction for student review

Oakland continues to offer courses via distance education. The three modes of delivery include live interactive video, synchronous and asynchronous web-based learning opportunities.

The Internet is the current transmission vehicle for the University's live two-way compressed video course offerings. The ongoing development and interest in online learning courses and programs has reduced the need to utilize the more expensive live interactive video distance learning model and thus there is less of a need to maintain high cost video conferencing systems and resources. However, the growth in web based learning models will continue to expand in the foreseeable future.

Oakland University supports a web-based Course Management System (CMS) solution utilizing Moodle. Moodle can be used as a full "web based" solution where no face-to-face teaching is required or as a "web supplemented" course resource that enhances the standard face-to-face classroom contact between faculty and student. Moodle offers online activities such as discussion boards, chat, quizzes, grade book, file storage and display, RSS feeds, wikis, journals, workshops, automated lessons. Moodle will also be the portal to access lecture capture recordings. We also support another separate instance of Moodle that is our e-Portfolio. It includes digital space for student career Portfolios. A third instance of Moodle

is called e-Space that contains department assessment activities, research, academic committees, advising, and other miscellaneous academic activities.

Elluminate is a web-based synchronous learning, video-conferencing solution Oakland is offering where students are able to participate in live class meetings from any computer connected to the Internet. Another teaching tool is Second Life, an experimental island where several faculty meet their classes.

During the Winter 2011, Oakland offered 136 course sections that are fully online and approximately one third of all course sections are providing some level of web supplemented activity. Oakland also offers twenty-nine online degree and certificate programs.

Scantron machines, i-Clicker, and other software are also supported centrally for grading exams and processing course evaluations.

Technological Enhancements

Oakland University is dedicated to enhancing education through the use of contemporary and emerging technologies and continues to commit significant resources to technological enhancements, including:

- Complete administrative software suite.
- On-line registration.
- Extensive wired and wireless network to all classroom buildings and surroundings.
- Elliott Hall of Business and Information Technology, a \$17.5-million, 74,000-square foot, technology-rich facility.
- The Pawley Hall of Education & Human Services Building with 24 enhanced technology classrooms and an all digital video recording, playback and archive system in the School's Counseling Center.
- Interactive television and video conferencing capability to supplement instruction and administrative program activity.
- On-line web-based course offerings to students utilizing Moodle, a course management software (CMS).
- Other teaching and learning software, such as Panopto, CourseWeb, Scantron, Turnitin, Second Life, Camtasia, I-clicker, and Visual Communicator.
- A new Information Commons was developed in Kresge Library adding a significant number of computer work stations for the patrons.
- A remodel of O'Dowd Hall was completed to become the initial home of the new Oakland University William Beaumont School of Medicine, including adding many new technology enhancements.
- An off-site School of Nursing instructional center was developed at the St. Johns Riverview Hospital location in Detroit including the creation of 5 technology enhanced classrooms.
- Renovation of the two-story Anton/Frankel Center in Mount Clemens provides

Oakland with a third Macomb County location with an additional 25,422 square feet of space. The new center will provide classrooms as well as offices for advising, student support services, faculty and staff.

- Major classroom renovation projects that included significant technology enhancement in older campus buildings continue to be a priority objective.

Helpdesk Operations

Oakland University provides a central helpdesk operation which supports all instructional and information technology service needs throughout the Institution.

In addition, the office of Classroom Support and Instructional Technical Services provides an immediate response helpdesk service that is open day and night, six days a week.

Cultural and Performing Arts

Oakland's contribution to the arts has moved beyond local boundaries to secure a place of prominence in the region. Historically, OU has had a strong performing arts program with record-high enrollment numbers.

The Department of Music, Theatre and Dance offers more than 100 student and faculty performances throughout the school year. Guests enjoy everything from musicals and intimate recitals to experimental plays and innovative dance performances. OU has earned a reputation for taking artistic risks, developing gifted artists, nurturing arts partnerships and achieving new heights of quality and professionalism.

Meadow Brook Hall is the fourth largest historic house museum in the United States and is renowned for its superb craftsmanship, architectural detailing and grand scale. Built between 1926 and 1929 as the residence of Matilda Dodge Wilson (widow of auto pioneer John Dodge) and her second husband, lumber broker Alfred G. Wilson, the 110-room, 88,000-square-foot, Tudor-revival style mansion is complete with vast collections of original art and furnishings.

The Oakland University Art Gallery (OUAG), housed in the Department of Art and Art History, continues to garner critical acclaim for the quality and scope of its exhibitions. From September to May, the OUAG presents six different exhibitions – anything from Russian icons to Native American art to cutting-edge art produced by breakthrough Michigan artists. The gallery also offers lectures, performances, tours, special events and more. More than 20,000 visit OUAG each year to experience art and cultural programs.

Outdoor summer amphitheatre, Meadow Brook Music Festival, hosts today's top concerts including rock, alternative, adult contemporary, pop, country, the Detroit Symphony Orchestra, rhythm and blues, and family entertainment.

Community Outreach

In the nearly six years since Oakland University initiated a formal partnership with the City of Rochester through the Rochester Downtown Development Authority (DDA), much has been accomplished with new initiatives added over time. Oakland considers Rochester its "hometown community" based on its long history with the city dating to the University's founding.

The partnership presents many opportunities for the OU community to benefit from joint educational and cultural programming. Areas of emphasis for students, faculty and alumni have included: employment, internships, research and development projects, business development assistance, community service projects, promotions and business discounts, and opportunities to showcase the arts, theatre and music to complement classroom work.

Students are involved in downtown Rochester events including an annual holiday parade, attracting more than 100,000 spectators. Students, alumni, faculty and staff enjoy discounts at dozens of participating stores and restaurants through the OU GO card. The University also partners with the Rochester Regional Chamber of Commerce for joint programming and assistance. Oakland proudly partners with its other neighboring communities including Auburn Hills, Pontiac, and Rochester Hills.

OU and the City of Pontiac have a long history together through programs such as GEAR UP, which helps students in the Pontiac as well as Oak Park school districts; Project Upward Bound, which helps thousands of Pontiac students finish high school and develop the social and cultural skills needed to realize their dreams and succeed in college and society; and through the Wade H. McCree Jr. Incentive Scholarship program, which assures that students who meet specific criteria will be awarded a full-tuition scholarship to Oakland when they graduate from high school.

Oakland University-Macomb is involved in various community service efforts including sponsorship of Turning Point's annual fundraising event and Tara Grant Memorial Run Walk. This past holiday season, OU-Macomb staff and students made donations to Turning Point and its resale shop, Second Hand Rose. In addition, students in the Future Educators club donated over 100 books to Mt. Clemens King Academy.

Academic and Student Life Enhancements

All students should have the benefit of academic support services, especially mentoring and small learning communities, aimed at helping them make the necessary academic and social adjustments to achieve collegiate success.

The Advising Resource Center connects new students with OU advisers, peer mentors, graduate assistants, faculty and various support services on campus to provide a more effective student experience, especially during the critical first year.

Oakland's Trustee Academic Success scholarship program (OUTAS) is a national model for retaining and graduating a diverse group of high-achieving University students. OUTAS was established to counter the declining rates of minority retention, graduation and student performance.

Oakland's OU Writing Center in Kresge Library, established through a leadership gift from OU professor emeritus of English, Joan Rosen, assists hundreds of students each year. The Writing Center provides assistance to students to develop and incorporate effective writing and communications skills in all subject areas.

Oakland's Honors College offers highly motivated students seeking a rich, valuable and challenging undergraduate education an intimate, intellectually friendly and challenging atmosphere. Small classes average 10 to 20 students and allow for more interaction between the professor and other students. The program offers a specially designed core of general education courses in art, literature, western civilization, international studies, social science, mathematics, logic, computer science, natural science and technology.

Oakland's Student Technology Center serves as a digital hub for the promotion, instruction and support of technology literacy. Through the center, professional system specialists, combined with undergraduate student technology mentors, provide training and support in one-on-one or group sessions to students. This support helps students become proficient in technology, complete coursework in various disciplines, conduct University-related business transactions and work-related tasks, and improve personal growth skills.

OU has more than 170 student organizations that encourage student involvement and social opportunities.

The Recreation Center hosts a number of activities throughout the academic year in which students may get involved, including self-defense and other safety classes, scuba diving courses and many others. This state-of-the-art facility draws more than 5,000 participants a week for recreation and swimming, and record crowds at men's basketball games.

UNDERGRADUATE DEGREE PROGRAMS

College of Arts and Sciences (96) Bachelor of Arts – CASBA (55)

| | |
|------|--|
| 2810 | Anthropology |
| 2815 | Anthropology – Modified w/Concentration in Linguistics |
| 1055 | Art History |
| 1105 | Biology |
| 1230 | Chemistry |
| 1450 | Cinema Studies |
| 2705 | Communication |
| 2715 | Communication – Modified w/Concentration in Linguistics |
| 1420 | Creative Writing |
| 2290 | Dance |
| 1610 | East Asian Studies – China |
| 1615 | East Asian Studies – Japan |
| 3700 | Economics |
| 1405 | English |
| 1410 | English – Modified w/Concentration in Linguistics |
| 1980 | French Language and Literature |
| 1985 | French – Modified |
| 2015 | German w/Concentration in German Studies |
| 2010 | German Language and Literature |
| 2020 | German – Modified |
| 1505 | History |
| 1045 | Independent Major |
| 2510 | International Relations |
| 2040 | Japanese Language and Literature |
| 2045 | Japanese – Modified |
| 2735 | Journalism |
| 2060 | Latin American Language and Civilization |
| 1625 | Latin American Studies |
| 1700 | Liberal Studies |
| 1705 | Linguistics |
| 1710 | Linguistics – Modified |
| 1805 | Mathematics |
| 2205 | Music |
| 2375 | Philosophy |
| 2380 | Philosophy - Modified |
| 2385 | Philosophy – Modified w/Concentration in Linguistics |
| 2405 | Physics |
| 2515 | Political Science |
| 2605 | Psychology |
| 2615 | Psychology – Modified w/Concentration in Linguistics |
| 2820 | Sociology |
| 2805 | Sociology/Anthropology |
| 2825 | Sociology – Modified w/Concentration in Linguistics |
| 2830 | Sociology – w/Specialization in Criminal Justice (2 + 2) |
| 2100 | Spanish Language and Literature |
| 2110 | Spanish – Modified |
| 1070 | Studio Art |
| 1075 | Studio Art – Specialization in Drawing |

1090 Studio Art - Specialization in New Media
1080 Studio Art – Specialization in Painting
1085 Studio Art – Specialization in Photography
2294 Theatre
2130 Two Modern Languages
2870 Writing and Rhetoric
2865 Women and Gender Studies

Bachelor of Fine Arts – BFA (4)

2283 Acting
2290 Dance
2285 Musical Theatre
2296 Theatre Design & Technology

Bachelor of Music – BM (7)

2270 Choral/General Music Education
2279 Choral/General Music Education/Performance
2272 Instrumental/General Music Education
2278 Instrumental/General Musical Education Performance
2265 Music – Instrumental Performance
2245 Music – Piano Performance
2240 Music – Vocal Performance

Bachelor of Science – CASBS (13)

1835 Applied Statistics
1225 Biochemistry
1105 Biology
1110 Biology – Modified w/Concentration in Applied Statistics
1125 Biology – Modified w/Specialization in Anatomy
1120 Biology – Modified w/Specialization in Cell-Molecular Biology
1130 Biology – Modified w/Specialization in Microbiology
Biomedical Sciences
1905 Actuarial Science
1230 Chemistry
1805 Mathematics
2420 Medical Physics
2405 Physics
2530 Public Administration and Public Policy

Bachelor of Science – ENVSCI (2)

1252 Environmental Science/Specialization Sustainability and Res. Mgt.
1257 Environmental Science/Specialization in Environmental Health
1266 Environmental Science

Bachelor of Social Work – BSW (1)

2860 Social Work

K-12 Educational Programs (8)

1992 French w/K-12 Certification
2027 German w/K-12 Certification
2122 Spanish w/K-12 Certification
1071 Studio Art/K-12
1076 Studio Art – w/K-12 Specialization in Drawing
1091 Studio Art – w/K-12 Specialization in New Media

- 1081 Studio Art – w/K-12 Specialization in Painting
- 1086 Studio Art – w/K-12 Specialization in Photography

Secondary Education Programs (6)

- 1140 Biology w/Secondary
- 1240 Chemistry w/Secondary
- 1430 English w/Secondary
- 1515 History w/Secondary
- 1825 Mathematics w/Secondary
- 2430 Physics w/Secondary

School of Business Administration (9)

Bachelor of Science – SBABS (9)

- 3100 Accounting
- 3705 Business Economics
- 3700 Economics
- 3200 Finance
- 3300 General Management
- 3400 Human Resource Management
- 3500 Management Information Systems
- 3600 Marketing
- 3806 Operations Management

School of Education and Human Services (2)

Bachelor of Science (2)

- 4120 Elementary Education
- 4320 Human Resource Development

School of Engineering and Computer Science (6)

Bachelor of Science (2)

- 5020 Computer Science
- 5070 Information Technology

Bachelor of Science in Engineering (4)

- 5120 Computer Engineering
- 5140 Electrical Engineering
- 5185 Industrial & Systems Engineering
- 5160 Mechanical Engineering

School of Health Sciences (11)

Bachelor of Science (11)

- 6070 Applied Health Sciences
- 6161 Biomedical Diagnostic and Therapeutic Sciences
- 6020 Health Sciences
- 6167 BDTS: Medical Laboratory Science
- 6162 BDTS: Cytotechnology
- 6163 BDTS: Histotechnology
- 6165 BDTS: Nuclear Medical Technology
- 6166 BDTS: Radiation Therapy
- 6168 BDTS: Radiologic Technology
- 6041 Occupational Safety and Health
- 6050 Wellness, Health Promotion, and Injury Prevention

School of Nursing (2)

Bachelor of Science in Nursing (2)

- 7020 Nursing
- 7040 Nursing (Completion Sequence)

University Programs (1)

Bachelor of Integrative Studies (1)

7605 Integrative Studies

Bachelor of Science Offered Jointly between the College of Arts and Sciences and School of Engineering and Computer Science (3)

5050 Engineering Biology

5040 Engineering Chemistry

5060 Engineering Physics

Bachelor of Science Offered Jointly between the College of Arts and Sciences and School of Business Administration (1)

3750 Actuarial Science

UNDERGRADUATE CONCENTRATIONS AND MINORS

UNDERGRADUATE CONCENTRATIONS (24)

1435 American Studies

1835 Applied Statistics

2850 Archaeology

2858 Criminal Justice

1270 Environmental Studies

6240 Exercise Science

1995 French Studies

2016 German Studies

6030 Health Behavioral Sciences

6073 Health Information Technology

6023 Integrative Holistic Medicine

1705 Linguistics

6071 Medical Assistant

6075 Occupational Therapy Assistant

6076 Physical Therapist Assistant

6021 Pre-Health Professional

1152 Pre-Medical Studies in Med/Den/Opt/Vet

6022 Pre-Pharmacy

6015 Pre-Physical Therapy

1150 Pre-Professional Studies in Med/Den/Opt/Vet and Physician Assistant

2856 Religious Studies

6072 Respiratory Therapy

6074 Surgical Technology

2855 Urban Studies

UNDERGRADUATE MINORS (83)

3100 Accounting

2740 Advertising

1605 African-American Studies

2810 Anthropology

1810 Applied Mathematics

4355 Applied Leadership Skills

1835 Applied Statistics

3810 Applied Technology in Business

1055 Art History

1105 Biology

3840 Business
1230 Chemistry
1610 East Asian Studies – China
1615 East Asian Studies – Japan
1956 Chinese Language
1955 Chinese Language and Civilization
2841 Christianity Studies
1450 Cinema Studies
2705 Communication
5020 Computer Science
5021 Computing
Creative Writing
2290 Dance
3700 Economics
4351 Employment Systems and Standards
1405 English
1721 English as a Second Language
3850 Entrepreneurship
1266 Environmental Science
6240 Exercise Science
3200 Finance
1981 French Language
1980 French Language and Literature
3315 General Business
2011 German Language
2010 German Language and Literature
2016 German Studies
1095 Graphic Design
1505 History
4320 Human Resource Development
3400 Human Resources Management
3302 International Management
2510 International Relations
5070 Information Technology
2842 Islamic Studies
2037 Japanese Language
2035 Japanese Language and Civilization
2040 Japanese Language and Literature
2350 Jazz Studies
2735 Journalism
2843 Judaic Studies
1625 Latin American Studies
1705 Linguistics
3500 Management Information Systems
3600 Marketing
1805 Mathematics
1635 Middle Eastern Studies
2205 Music
6055 Nutrition and Health
6041 Occupational Safety and Health
3806 Operations Management
2375 Philosophy
2405 Physics
2515 Political Science
2605 Psychology
2742 Public Relations

| | |
|------|--|
| 2530 | Public Administration and Public Policy |
| 3800 | Quantitative Methods |
| 1630 | Slavic Studies |
| 2820 | Sociology |
| 1620 | South Asian Studies |
| 2101 | Spanish Language |
| 2100 | Spanish Language and Literature |
| 1070 | Studio Art |
| 1720 | Teaching English as a Second Language in Linguistics |
| 2294 | Theatre |
| 1147 | Three Science |
| 4900 | Training and Development |
| 1146 | Two Science |
| 6050 | Wellness, Health Promotion, and Injury Prevention |
| 2865 | Women and Gender Studies |
| 2870 | Writing and Rhetoric |
| 2355 | World Music |

GRADUATE DEGREE PROGRAMS

Doctor of Philosophy (13)

| | |
|--------|---|
| PH1900 | Applied Mathematical Sciences |
| PH1115 | Biomedical Sciences: Biological Communication |
| PH1350 | Biomedical Sciences: Health and Environmental Chemistry |
| PH2490 | Biomedical Sciences: Medical Physics |
| PH5030 | Computer Science and Informatics |
| PH4951 | Education: Educational Leadership |
| PH4950 | Education: Counseling |
| PH4952 | Education: Early Childhood Education |
| PH5160 | Mechanical Engineering |
| PH2305 | Music Education |
| PH4940 | Reading Education |
| PH5180 | Systems Engineering |
| PH5540 | Electrical and Computer Engineering |

Doctor of Physical Therapy (2)

| |
|--------|
| DP6220 |
| DP6221 |

Doctor of Science in Physical Therapy (1)

| |
|--------|
| DS6220 |
|--------|

Doctor of Nursing Practice (1)

| |
|--------|
| DN7400 |
|--------|

Doctor of Medicine (1)

| |
|--------|
| MD9100 |
|--------|

Education Specialist (1)

ED4705 **Early Education and Intervention**
ES4650 Leadership

Master of Arts (7)

MA1105 Biology
MA2710 Communications
MA4400 Counseling
MA1405 English
MA1505 History
MA1705 Linguistics
MA1805 Mathematics

Master of Arts in Liberal Studies (1)

MA1700

Master of Accounting (1)

MA3100

Master of Arts in Teaching (3)

MT4120 Elementary Education
MT4500 Reading and Language Arts
MT4220 Secondary Education

Master of Business Administration (2)

MB3900

MB3901

Master of Education (5)

ME4700 Early Childhood Education
ME4610 Educational Leadership
ME4620 Educational Studies
ME4800 Special Education
ME4615 Teacher Leadership

Master of Music (7)

MM2335 Conducting
MM2345 Instrumental Performance
MM2305 Music Education
MM2320 Piano Pedagogy
MM2325 Piano Performance
MM2310 Vocal Pedagogy
MM2315 Vocal Performance

Master of Public Administration (1)

MP2560

Master of Science (18)

MS1835 Applied Statistics
MS1105 Biology
MS1230 Chemistry

| | |
|--------|---|
| MS5020 | Computer Science |
| MS5540 | Electrical and Computer Engineering |
| MS5620 | Embedded Systems |
| MS5560 | Engineering Management |
| MS6240 | Exercise Science |
| MS5185 | Industrial and Systems Engineering |
| MS1860 | Industrial Applied Mathematics |
| MS3550 | Information Technology Management |
| MS5160 | Mechanical Engineering |
| MS5545 | Mechatronics |
| MS6220 | Physical Therapy |
| MS2405 | Physics |
| MS6045 | Safety Management |
| MS5600 | Software Engineering and Information Technology |
| MS5180 | Systems Engineering |

Master of Science in Nursing (7)

| | |
|--------|--|
| MS7270 | Adult Gerontological Nurse Practitioner |
| MS7266 | Clinical Nurse Leadership |
| MS7265 | Clinical Nurse Specialist - Adult Health |
| MS7280 | Family Nurse Practitioner |
| MS7220 | Nurse Anesthesia |
| MS7285 | Nursing Education |
| MS7290 | RN to MSN |

Master of Training and Development (1)

MD4900

Graduate Certificate (25)

| | |
|--------|-------------------------------------|
| GC4551 | Advanced Microcomputer Applications |
| GC4820 | Autism Spectrum Disorder |
| GC1107 | Biomedical Sciences |
| GC6245 | Clinical Exercise Science |
| GC7266 | Clinical Nurse Leadership |
| GC6248 | Complementary Medicine and Wellness |
| GC2335 | Conducting |
| GC6246 | Corporate and Worksite Wellness |
| GC6240 | Exercise Science |
| GC2345 | Instrumental Performance |
| GC4625 | International Education |
| GC4550 | Microcomputer Applications |
| GC2305 | Music Education |
| GC6233 | Neurological Rehabilitation |
| GC7285 | Nursing Education |
| GC6230 | Orthopedic Manual Physical Therapy |
| GC6232 | Orthopedics |
| GC6231 | Pediatric Rehabilitation |
| GC2320 | Piano Pedagogy |
| GC2325 | Piano Performance |
| GC1880 | Statistical Methods |

| | |
|--------|--|
| GC6234 | Teaching and Learning for Rehabilitation Professionals |
| GC1720 | Teaching English as Second language |
| GC2310 | Vocal Pedagogy |
| GC2315 | Vocal Performance |

Post Masters Graduate Certificate (30)

| | |
|--------|--|
| PM3100 | Accounting |
| PM7270 | Adult Gerontological Nurse Practitioner |
| PM4561 | Advanced Reading, Language Arts and Literature |
| PM3705 | Business Economics |
| PM7267 | Clinical Nurse Leadership |
| | Clinical Nurse Specialist: Adult Health |
| PM7264 | |
| PM2335 | Conducting |
| PM2569 | Criminal Justice Leadership |
| PM3850 | Entrepreneurship |
| PM7280 | Family Nurse Practitioner |
| PM3200 | Finance |
| PM3300 | General Management |
| PM2566 | Health Care Administration |
| PM4670 | Higher Education |
| PM3400 | Human Resources Management |
| PM2345 | Instrumental Performance |
| PM3305 | International Business |
| PM2568 | Local Government Management |
| PM3500 | Management Information Systems |
| PM3600 | Marketing |
| PM2305 | Music Education |
| PM2567 | Nonprofit Organization & Management |
| PM7220 | Nurse Anesthesia |
| PM7285 | Nursing Education |
| PM2320 | Piano Pedagogy |
| PM2325 | Piano Performance |
| PM3805 | Production/Operations Management |
| PM4560 | Reading, Language Arts and Literature |
| PM2310 | Vocal Pedagogy |
| PM2315 | Vocal Performance |

III. Staffing and Enrollment

The following tables and graphs are provided:

Figure 1 - Faculty and Staff Full Time Equivalent (FTE) by Program, FY 2010-11

This chart shows the FTE for faculty, administration and clerical/service for both instructional disciplines and non-instructional program classes.

| | | FACULTY | ADMINISTRATION | CLERICAL AND SERVICE |
|-------|----------------------------|---------------|----------------|----------------------|
| 5 | AREA STUDIES | 16.56 | 0.00 | 0.66 |
| 9 | COMMUNICATION | 39.92 | 0.16 | 0.00 |
| 11 | COMPUTERS | 15.91 | 5.61 | 1.96 |
| 13 | EDUCATION | 111.91 | 9.47 | 13.29 |
| 14 | ENGINEERING | 37.77 | 9.34 | 6.91 |
| 16 | FOREIGN LANGUAGES | 46.90 | 0.51 | 3.52 |
| 23 | ENGLISH & LETTERS | 81.40 | 1.00 | 4.73 |
| 24 | LIBERAL ARTS | 4.88 | 1.17 | 0.33 |
| 25 | LIBRARY | 0.08 | 0.00 | 0.00 |
| 26 | BIOLOGY | 32.20 | 6.44 | 5.07 |
| 27 | MATH | 32.79 | 4.76 | 3.67 |
| 30 | MULTI/INTERDISCIPLINARY | 0.70 | 0.00 | 0.00 |
| 31 | PARKS RECREATION & FITNESS | 8.05 | 0.00 | 0.00 |
| 38 | PHILOSOPHY | 17.45 | 0.08 | 0.75 |
| 40 | PHYSICAL SCIENCES | 28.59 | 9.90 | 9.75 |
| 42 | PSYCHOLOGY | 16.28 | 1.09 | 1.82 |
| 44 | PUBLIC ADMINISTRATION | 7.39 | 0.00 | 0.00 |
| 45 | SOCIAL SCIENCES | 44.54 | 1.99 | 3.26 |
| 50 | VISUAL & PERFORMING ARTS | 65.72 | 9.10 | 9.63 |
| 51 | HEALTH PROFESSIONS | 4.14 | 0.00 | 0.00 |
| 51.22 | PUBLIC HEALTH | 6.40 | 0.00 | 0.00 |
| 51.22 | REG NURSING | 43.93 | 1.87 | 1.45 |
| 51.99 | OTHER HEALTH PROFESSIONALS | 22.16 | 4.35 | 3.25 |
| 52 | BUSINESS | 84.37 | 5.30 | 5.29 |
| 54 | HISTORY | 19.95 | 0.43 | 1.81 |
| | TOTAL INSTRUCTION | 789.99 | 72.57 | 77.15 |
| | RESEARCH | | 8.91 | 4.55 |
| | PUBLIC SUPPORT | | 1.55 | 0.13 |
| | ACADEMIC SUPPORT | | 171.31 | 150.78 |
| | STUDENT SERVICES | | 70.21 | 87.02 |
| | INSTITUTIONAL SUPPORT | | 119.50 | 82.58 |
| | PLANT OPERATION & MAINT | | 14.00 | 101.72 |
| | AUXILIARY ENTERPRISES | | 34.04 | 4.46 |
| | TOTAL FTEs | 789.99 | 492.09 | 508.39 |

Figure 2 - Student Credit Hours by Level and by Program, FY 2010-11
 This chart shows credit hours awarded by instructional discipline.

| CIP | | Lower | Upper | Masters | Doctoral | Total |
|--------------|-----------------------------------|----------------|----------------|---------------|--------------|----------------|
| 05 | Area Studies | 8,436 | 1,506 | | | 9,942 |
| 09 | Communication | 8,199 | 10,699 | | | 18,898 |
| 11 | Computer Science | 4,796 | 2,189 | 738 | 102 | 7,825 |
| 13 | Education | 1,409 | 15,206 | 21,876 | 4,420 | 42,911 |
| 14 | Engineering | 3,547 | 4,062 | 3,157 | 693 | 11,459 |
| 16 | Modern Languages | 20,234 | 4,230 | 552 | | 25,016 |
| 23 | English | 30,949 | 11,388 | 517 | | 42,854 |
| 24 | Liberal Arts | 1,848 | 79 | 142 | | 2,069 |
| 25 | Library Science | 24 | | | | 24 |
| 26 | Biology | 22,073 | 11,555 | 810 | 75 | 34,513 |
| 27 | Math | 24,068 | 1,098 | 994 | 62 | 26,222 |
| 30 | Multi/Interdisciplin. Sciences | | 740 | | | 740 |
| 31 | Parks, Recreation & Fitness | 2,668 | 2,287 | 1,172 | | 6,127 |
| 38 | Philosophy | 9,492 | 1,878 | | | 11,370 |
| 40 | Physical Sciences | 26,149 | 1,524 | 633 | 204 | 28,510 |
| 42 | Psychology | 15,628 | 5,234 | | | 20,862 |
| 44 | Public Administration | 236 | 2,056 | 1,424 | | 3,716 |
| 45 | Social Science | 21,002 | 12,128 | 324 | | 33,454 |
| 50 | Fine Arts | 21,258 | 7,742 | 652 | 98 | 29,750 |
| 51.38 | Nursing | 7,042 | 17,654 | 3,331 | 790 | 28,817 |
| 51.22 | Public Health | 411 | 1,632 | 110 | | 2,153 |
| 51.99 | Other Health Professions | 5,369 | 9,047 | 3,200 | 1,496 | 19,112 |
| 52 | Business | 10,136 | 29,416 | 7,814 | | 47,366 |
| 54 | History | 7,920 | 3,920 | 162 | | 12,002 |
| Total | | 252,894 | 157,270 | 47,608 | 7,940 | 465,712 |

Figure 3 - Degrees Awarded by Program, FY 2009-10

This chart shows the degrees awarded by program.

| CIP | | Bachelor's | Post Bachelor's | Master's | Post Master's | Doctoral | Total |
|--------------|--------------------------------|--------------|--------------------|------------|------------------|------------|--------------|
| 05 | Area Studies | 16 | 0 | 0 | 0 | 0 | 16 |
| 09 | Communication | 207 | 0 | 0 | 0 | 0 | 207 |
| 11 | Computer Science | 49 | 0 | 24 | 0 | 1 | 73 |
| 13 | Education | 223 | 28 | 387 | 84 | 22 | 744 |
| 14 | Engineering | 104 | 0 | 83 | 0 | 8 | 195 |
| 15 | Engineering Management | 0 | 0 | 17 | 0 | 0 | 17 |
| 16 | Modern Languages | 52 | 0 | 7 | 0 | 0 | 59 |
| 23 | English | 93 | 0 | 14 | 0 | 0 | 107 |
| 24 | Liberal Arts | 95 | 0 | 1 | 0 | 0 | 96 |
| 26 | Biology | 120 | 0 | 4 | 0 | 2 | 126 |
| 27 | Math | 13 | 2 | 7 | 0 | 2 | 24 |
| 31 | Parks, Recreation & Fitness | 0 | 0 | 18 | 0 | 0 | 18 |
| 38 | Philosophy | 8 | 0 | 0 | 0 | 0 | 8 |
| 40 | Physical Sciences | 16 | 0 | 12 | 0 | 3 | 31 |
| 42 | Psychology | 118 | 0 | 0 | 0 | 0 | 118 |
| 44 | Public Administration | 47 | 0 | 22 | 0 | 0 | 69 |
| 45 | Social Science | 138 | 0 | 0 | 0 | 0 | 138 |
| 50 | Fine Arts | 70 | 0 | 5 | 0 | 0 | 75 |
| 51.16 | Nursing | 330 | 0 | 35 | 0 | 25 | 390 |
| 51.22 | Public Health | 26 | 0 | 3 | 0 | 0 | 29 |
| 51.99 | Other Health Professions | 140 | 0 | 6 | 0 | 41 | 187 |
| 52 | Business | 458 | 0 | 214 | 0 | 0 | 672 |
| 54 | History | 55 | 0 | 5 | 0 | 0 | 60 |
| Total | Total | 2,378 | 30 | 864 | 84 | 103 | 3,459 |

Figure 4 - Enrollment Trends from Fall 1998 to Fall 2011

This graphic shows the growth over the last twelve years in undergraduate and graduate resident students and undergraduate and graduate non-resident students. During this period Oakland University's enrollment increased from 14,289 to 19,329, an increase of over 35%.

| Fall Term | Undergraduate | | | Graduate | | | Total | | |
|-------------|---------------|--------------|---------------|--------------|--------------|--------------|---------------|--------------|---------------|
| | In-State | Out of State | Total | In-State | Out of State | Total | In-State | Out of State | Total |
| 1998 | 10,963 | 148 | 11,111 | 3,061 | 117 | 3,178 | 14,024 | 265 | 14,289 |
| 1999 | 11,473 | 181 | 11,654 | 2,989 | 83 | 3,072 | 14,462 | 264 | 14,726 |
| 2000 | 11,797 | 205 | 12,002 | 3,132 | 101 | 3,233 | 14,929 | 306 | 15,235 |
| 2001 | 12,311 | 218 | 12,529 | 3,236 | 110 | 3,346 | 15,547 | 328 | 15,875 |
| 2002 | 12,418 | 216 | 12,634 | 3,310 | 115 | 3,425 | 15,728 | 331 | 16,059 |
| 2003 | 12,731 | 228 | 12,959 | 3,515 | 102 | 3,617 | 16,246 | 330 | 16,576 |
| 2004 | 12,894 | 221 | 13,115 | 3,580 | 207 | 3,787 | 16,474 | 428 | 16,902 |
| 2005 | 13,233 | 215 | 13,448 | 3,787 | 104 | 3,891 | 17,020 | 319 | 17,339 |
| 2006 | 13,484 | 217 | 13,701 | 3,936 | 100 | 4,036 | 17,420 | 317 | 17,737 |
| 2007 | 13,907 | 183 | 14,090 | 3,879 | 113 | 3,992 | 17,786 | 296 | 18,082 |
| 2008 | 14,233 | 164 | 14,397 | 3,646 | 126 | 3,772 | 17,879 | 290 | 18,169 |
| 2009 | 15,091 | 184 | 15,275 | 3,526 | 319 | 3,645 | 18,617 | 303 | 18,920 |
| 2010 | 15,331 | 199 | 15,530 | 3,400 | 123 | 3,523 | 18,731 | 322 | 19,053 |
| 2011 | 15,637 | 201 | 15,838 | 3,411 | 130 | 3,541 | 19,048 | 331 | 19,379 |

Figure 5 – Enrollment Projections by School/College and Level, Fall 2012 – Fall 2016
 Oakland University continues to experience increases in enrollments.

| Enrollment Projections by School/College and Level Fall 2012 - Fall 2016 | | | | | | | |
|---|--------|-------------|--------|--------|--------|--------|-------------------------|
| Undergraduate | Actual | Projections | | | | | % Change 2011 - 2016 |
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| CAS | 6,036 | 6,105 | 6,170 | 6,218 | 6,282 | 6,354 | 5.3% |
| SBA | 2,113 | 2,146 | 2,169 | 2,186 | 2,208 | 2,234 | 5.7% |
| SEHS | 1,317 | 1,333 | 1,347 | 1,358 | 1,371 | 1,387 | 5.3% |
| SECS | 1,030 | 1,089 | 1,100 | 1,109 | 1,120 | 1,133 | 10.0% |
| SHS | 1,846 | 1,923 | 1,943 | 1,959 | 1,979 | 2,001 | 8.4% |
| SON | 1,845 | 1,870 | 1,889 | 1,904 | 1,924 | 1,946 | 5.5% |
| UP/None | 1,651 | 1,631 | 1,648 | 1,661 | 1,678 | 1,698 | 2.8% |
| Total | 15,838 | 16,098 | 16,267 | 16,396 | 16,563 | 16,754 | 5.8% |
| Graduate | | | | | | | |
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| CAS | 437 | 423 | 424 | 428 | 433 | 459 | 5.0% |
| SBA | 437 | 430 | 431 | 434 | 442 | 465 | 6.4% |
| SEHS | 1,599 | 1,581 | 1,584 | 1,603 | 1,637 | 1,693 | 5.9% |
| SECS | 431 | 426 | 428 | 441 | 447 | 466 | 8.1% |
| SHS | 258 | 250 | 251 | 254 | 258 | 271 | 5.1% |
| SON | 329 | 321 | 322 | 326 | 331 | 346 | 5.3% |
| Medical School | 50 | 125 | 225 | 349 | 448 | 547 | 994.0% |
| Total | 3,541 | 3,556 | 3,664 | 3,834 | 3,995 | 4,433 | 25.2% |
| Total | | | | | | | |
| | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | |
| CAS | 6,473 | 6,529 | 6,594 | 6,646 | 6,714 | 6,813 | 5% |
| SBA | 2,550 | 2,576 | 2,600 | 2,621 | 2,650 | 2,699 | 6% |
| SEHS | 2,916 | 2,914 | 2,931 | 2,960 | 3,008 | 3,081 | 6% |
| SECS | 1,461 | 1,515 | 1,528 | 1,550 | 1,567 | 1,599 | 9% |
| SHS | 2,104 | 2,173 | 2,194 | 2,212 | 2,237 | 2,273 | 8% |
| SON | 2,174 | 2,191 | 2,212 | 2,231 | 2,255 | 2,292 | 5% |
| Medical School | 50 | 125 | 225 | 349 | 448 | 547 | 994% |
| University Programs | 1,651 | 1,631 | 1,648 | 1,661 | 1,678 | 1,698 | 3% |
| Total | 19,379 | 19,654 | 19,931 | 20,230 | 20,558 | 21,002 | 8% |

Figure 6 – General Fund Square Feet per Student in Michigan, FY 2009-2010

This chart shows that Oakland University is last in general fund square footage per student of the 15 Michigan institutions. Source: Heidi Data Base

| Rank by SQ FT | |
|----------------------|------------------|
| UNIV | SQFT/FYES |
| LSSU | 355.67 |
| UM_AA | 347.04 |
| MSU | 316.33 |
| MTU | 307.55 |
| WMU | 275.99 |
| WSU | 260.87 |
| NMU | 239.30 |
| UM-D | 213.46 |
| UM-F | 213.26 |
| EMU | 178.16 |
| CMU | 163.92 |
| SVSU | 154.19 |
| FSU | 147.80 |
| GVSU | 122.66 |
| OU | 99.08 |

Future Staffing Needs

Oakland University currently employs 3,070 full and part-time faculty and staff and 2,252 student employees. In addition, there are over 100 employees of contract service providers for food service, bookstore, and custodial services. Faculty and staff will grow with increased enrollment.

Average Class Size

Average class size for undergraduate instruction in fall 2010 was 32.89 students. Graduate class size in fall 2010 was 18.12 and PhD classes averaged 8.31 students. It is important to the institutional character that the size of classes remains small. However, larger classes have been a cost-effective way to absorb growth.

IV. Facility Assessment

Utilization Rates

Oakland University has the lowest building square footage per student (figure 6) of any of the 15 public universities. However, a comparison of its programmatic mix with its doctoral programs and the relatively large number of engineering and science programs would lead to the conclusion that it should at least be near the overall average in total space. Program by program comparisons to national norms for disciplines indicates that all programs, even the School of Business with its new facility, fall short in space.

Classroom utilization is also very high, especially in the evenings. Oakland's enrollment includes a large number of non-traditional students. Demand for evening classes exceeds available facilities. A large number of evening classes are offered at area high schools.

Mandated Standards

Mandated standards for animal research are met.

Functionality

The limited amount of specialized program space affects overall space functionality. This is particularly evident in the most impacted areas of Nursing, Health Sciences, Engineering and the Performing Arts. Recent facilities additions for the sciences, business and education provide good space for programmatic needs. Most academic programs on the Oakland University campus are offered in the following buildings:

- North Foundation Hall – Completed in 1959, and is primarily a student services building, but also includes two classrooms. The building is receiving a general facelift and significant improvements to the air distribution system.
- South Foundation Hall - Completed in 1959, this building is primarily a classroom building. The University has been adding technology to the classrooms over the past several years. This building is used by nearly all academic disciplines.

- Hannah Hall of Science - Completed in 1961, houses science, health science, and engineering laboratories as well as classrooms and offices. Air conditioning was added as part of a major energy project undertaken several years ago. Portions of the building were renovated to accommodate health sciences as part of the State funded Science and Engineering Building.
- Kresge Library – Completed in 1961 with additions in 1989. This is the central library for the institution.
- Wilson Hall - Completed in 1967, houses the departments of Art and Art History, and Communications and Journalism. It also houses Meadow Brook Theatre and administrative offices.
- Dodge Hall of Engineering - Completed in 1969, houses engineering and biology laboratories, offices, and classrooms. It also provides space for the Eye Research Institute and the administrative/academic-computing center. The School of Engineering and Computer Science has a significant space deficit compared to national standards. This deficit would be significantly reduced by the construction of the proposed Engineering Center.
- Varner Hall - Completed in 1970, houses the departments of Music, Theatre and Dance (MTD), History, Political Science, and Sociology/Anthropology. The facilities for MTD are inadequate to meet the needs of their growing programs.
- O'Dowd Hall - Completed in 1982, this building houses the School of Nursing, the Graduate Office, the Registrar, the Departments of English, Writing and Rhetoric, Modern Languages and Literatures, Linguistics, Philosophy, and a number of general purpose classrooms. O'Dowd Hall is the home of the School of Medicine. The building continues to suffer from leaks along the curtain wall that have been a problem for a number of years.
- Science and Engineering Building – Completed in 1997, houses the School of Engineering and Computer Science, as well as Chemistry, Physics, Biology and Mathematics departments, and includes a roof-top area for solar and atmospheric research projects, the S&R Sharf Computer Integrated Manufacturing Lab and a state of the art animal care facility.
- Elliott Hall - Completed in 2000, houses the School of Business Administration and Information Technology.
- Pawley Hall - Completed in 2002, houses the School of Education and Human Services, as well as the Lowry Child Development Center.
- Human Health Building - Scheduled for completion for Fall, 2012, this 165,126 square foot building will house the School of Health Sciences and the School of Nursing and general purpose classrooms. Collectively, this new enterprise is part of Oakland University's vision of better preparing today's health care students by creating an innovative partnership in one structure. With this new building, growth in

undergraduate and graduate enrollment can be doubled in response to vital shortages in nursing and heavy demand for health science professionals.

Although academic programs are offered in other facilities and there are a number of other service buildings and auxiliary buildings, the above are the major academic facilities. The average age of buildings on the main campus is 30 years old. In general, buildings are in fair condition. Oakland University maintains a comprehensive list of plant renewal and deferred plant renewal projects, which is updated annually.

Replacement Value of Facilities

The replacement value of Oakland University's nearly 3 million square feet, including Meadow Brook Hall is estimated at \$814 million.

Utility Systems Condition

The utility systems in facilities (i.e., heating, ventilation, air conditioning (HVAC), water, sewage, and electrical) are in varying degrees of condition, depending on facility age. All are fully functional, with those in the 30 to 40 year age group needing upgrades to increase efficiency and effectiveness of operation.

The existing water/sewage infrastructure is adequate to serve the projected programming needs for at least 10 years, due to a recently installed water source. An upgrade to the electrical substation was completed, which included cabling, switchgear, and a new substation. This upgrade will meet projected electrical needs for at least 15 years. Additional upgrades to infrastructure throughout campus will be required as campus facilities age and enrollment grows.

Due to the age of OU's infrastructure replacement/upgrade is needed of the HTHW lines (South Loop), IT closets, IT cabling with Voice over IP capabilities, Boiler #4 in the Central Heat Plant, and the infrastructure (HVAC, plumbing and electrical) in Hamlin Hall and Vandenberg Hall.

Facility Infrastructure Condition

The pavement/structural infrastructure is generally in fair condition. Funds are allocated annually to pavement/sidewalk repair to restore the most deteriorated portions.

Land

Oakland University's campus includes 1,443 acres. The main campus is approximately 350 acres. The remaining campus includes several major developments (a faculty/staff subdivision, the National Register Meadow Brook Estate, two golf courses), a large amount of wetland, and significant undeveloped acreage. The Campus Master Plan, approved by the Board of Trustees in April 2001, has identified future uses for all of the undeveloped property.

Buildings Obligated to the State Building Authority

The following buildings/portions of buildings are bonded through State bonds:

- Science and Engineering Building – lease expiration in 2034
- Elliott Hall – lease expiration in 2040
- Pawley Hall – lease expiration in 2042
- Human Health Building – lease expiration in 2047

The following facilities are bonded through the University:

- Golf course - final payment in 2026
- Recreation and Athletic Center - final payment in 2026
- Student Apartments – final payment in 2031
- Electrical Power Upgrade – final payment in 2031
- Parking Structure – final payment in 2031
- Oakland Center Expansion – final payment in 2031

Oakland University Classroom Utilization Reports

Peak - 10 AM to 3 PM
Fall 2009 Data

25 Available Weekly Room Hours - WRH
Room Type 110 - Classrooms

| Bldg Num | Room Num | ASF | Capacity | WRH | WRH% | Station Occupancy |
|----------|----------|-------|----------|-------|--------|-------------------|
| DHE | 200 | 1,126 | 108 | 22.00 | 88.0% | 56.1% |
| DHE | 201 | 3,004 | 314 | 23.01 | 92.0% | 22.4% |
| DHE | 202 | 702 | 52 | 21.10 | 84.4% | 72.1% |
| DHE | 203 | 990 | 77 | 22.00 | 88.0% | 54.4% |
| DHE | 204 | 374 | 25 | 14.00 | 56.0% | 58.3% |
| DHE | 236 | 394 | 25 | 22.00 | 88.0% | 63.3% |
| DHE | 237 | 389 | 25 | 18.43 | 73.7% | 56.6% |
| EH | 204 | 541 | 35 | 17.33 | 69.3% | 48.9% |
| EH | 206 | 523 | 35 | 19.00 | 76.0% | 74.9% |
| EH | 208 | 686 | 45 | 22.67 | 90.7% | 62.5% |
| EH | 210 | 683 | 45 | 21.00 | 84.0% | 60.7% |
| EH | 212 | 696 | 45 | 19.60 | 78.4% | 60.4% |
| EH | 214 | 902 | 44 | 16.26 | 65.0% | 56.4% |
| EH | 235 | 1,021 | 40 | 16.36 | 65.4% | 84.6% |
| EH | 237 | 1,026 | 40 | 21.17 | 84.7% | 77.1% |
| EH | 239 | 1,018 | 40 | 17.00 | 68.0% | 68.4% |
| HHS | 190 | 2,131 | 187 | 25.27 | 101.1% | 55.0% |
| HHS | 195 | 2,068 | 187 | 23.13 | 92.5% | 74.6% |
| HHS | 220 | 548 | 40 | 20.06 | 80.2% | 80.8% |
| HHS | 225 | 422 | 30 | 12.93 | 51.7% | 74.7% |
| HHS | 350 | 498 | 40 | 14.82 | 59.3% | 49.1% |
| NFH | 156 | 1,757 | 157 | 21.23 | 84.9% | 74.6% |

| | | | | | | |
|-----|------|-------|-----|-------|-------|-------|
| NFH | 159 | 1,757 | 90 | 14.00 | 56.0% | 72.2% |
| ODH | 108 | 424 | 60 | 22.00 | 88.0% | 82.9% |
| ODH | 110 | 1,548 | 60 | 22.00 | 88.0% | 88.5% |
| ODH | 202A | 1,591 | 0 | 18.00 | 72.0% | 49.4% |
| ODH | 202B | 2,391 | 0 | 17.67 | 70.7% | 57.6% |
| ODH | 202C | 1,561 | 0 | 16.10 | 64.4% | 93.3% |
| ODH | 203 | 2,460 | 229 | 23.92 | 95.7% | 60.8% |
| ODH | 204 | 2,426 | 178 | 19.13 | 76.5% | 73.3% |
| PH | 302 | 1,660 | 72 | 16.93 | 67.7% | 57.1% |
| PH | 306 | 910 | 48 | 19.01 | 76.0% | 72.3% |
| PH | 307 | 938 | 48 | 16.00 | 64.0% | 74.7% |
| PH | 308 | 910 | 48 | 15.60 | 62.4% | 62.8% |
| PH | 309 | 930 | 48 | 18.00 | 72.0% | 65.3% |
| PH | 310 | 732 | 36 | 15.67 | 62.7% | 71.6% |
| PH | 312 | 738 | 36 | 23.00 | 92.0% | 72.3% |
| PH | 314 | 916 | 48 | 23.00 | 92.0% | 46.6% |
| PH | 316 | 918 | 48 | 9.55 | 38.2% | 47.2% |
| PH | 318 | 910 | 48 | 20.22 | 80.9% | 70.5% |
| PH | 320 | 735 | 36 | 18.22 | 72.9% | 58.5% |
| SEB | 093 | 574 | 0 | 16.93 | 67.7% | 50.7% |
| SEB | 130 | 673 | 42 | 18.00 | 72.0% | 72.5% |
| SEB | 164 | 1,131 | 64 | 18.00 | 72.0% | 73.4% |
| SEB | 168 | 1,112 | 64 | 18.00 | 72.0% | 66.7% |
| SEB | 172 | 1,130 | 64 | 22.46 | 89.8% | 61.2% |
| SEB | 185 | 883 | 50 | 19.00 | 76.0% | 56.7% |
| SEB | 187 | 543 | 36 | 23.00 | 92.0% | 72.8% |
| SEB | 364 | 428 | 30 | 15.62 | 62.5% | 82.3% |
| SEB | 372 | 1,043 | 50 | 2.35 | 9.4% | 11.1% |
| SEB | 376 | 669 | 30 | 15.07 | 60.3% | 84.7% |
| SEB | 378 | 618 | 30 | 16.00 | 64.0% | 78.3% |
| SEB | 384 | 654 | 44 | 18.00 | 72.0% | 65.4% |
| SEB | 386 | 607 | 40 | 18.00 | 72.0% | 60.0% |
| SEB | 388 | 607 | 30 | 23.00 | 92.0% | 69.0% |
| SFH | 163 | 985 | 70 | 22.00 | 88.0% | 71.0% |
| SFH | 164 | 667 | 48 | 23.00 | 92.0% | 70.7% |
| SFH | 165 | 992 | 75 | 19.65 | 78.6% | 70.8% |
| SFH | 166 | 667 | 48 | 22.00 | 88.0% | 42.5% |
| SFH | 167 | 667 | 30 | 23.00 | 92.0% | 81.6% |
| SFH | 168 | 667 | 48 | 23.00 | 92.0% | 48.6% |
| SFH | 169 | 667 | 40 | 23.00 | 92.0% | 53.7% |
| SFH | 170 | 667 | 48 | 22.00 | 88.0% | 53.6% |
| SFH | 171 | 667 | 40 | 23.00 | 92.0% | 44.2% |
| SFH | 172 | 667 | 48 | 22.00 | 88.0% | 39.4% |
| SFH | 173 | 667 | 48 | 23.00 | 92.0% | 52.7% |
| SFH | 174 | 667 | 48 | 22.22 | 88.9% | 70.8% |
| SFH | 176 | 732 | 48 | 20.67 | 82.7% | 49.3% |
| SFH | 263 | 991 | 75 | 23.00 | 92.0% | 70.0% |
| SFH | 265 | 446 | 25 | 19.00 | 76.0% | 68.8% |
| SFH | 266 | 688 | 48 | 23.00 | 92.0% | 64.0% |
| SFH | 268 | 668 | 48 | 22.00 | 88.0% | 52.5% |
| SFH | 269 | 688 | 48 | 20.00 | 80.0% | 54.2% |
| SFH | 270 | 688 | 48 | 18.00 | 72.0% | 44.9% |

| | | | | | | |
|-----------------|-----|------------|-----------|--------------|--------------|--------------|
| SFH | 271 | 668 | 48 | 19.00 | 76.0% | 38.6% |
| SFH | 272 | 668 | 48 | 23.00 | 92.0% | 55.0% |
| SFH | 273 | 668 | 48 | 21.93 | 87.7% | 48.0% |
| SFH | 274 | 668 | 48 | 22.00 | 88.0% | 45.3% |
| SFH | 276 | 733 | 48 | 23.00 | 92.0% | 39.9% |
| SFH | 363 | 896 | 70 | 18.00 | 72.0% | 61.9% |
| SFH | 364 | 668 | 48 | 23.00 | 92.0% | 43.9% |
| SFH | 365 | 992 | 75 | 18.00 | 72.0% | 52.9% |
| SFH | 366 | 668 | 48 | 22.00 | 88.0% | 51.3% |
| SFH | 367 | 668 | 48 | 21.67 | 86.7% | 56.9% |
| SFH | 368 | 668 | 48 | 22.00 | 88.0% | 44.1% |
| SFH | 369 | 668 | 48 | 21.67 | 86.7% | 50.0% |
| SFH | 370 | 688 | 48 | 22.00 | 88.0% | 53.2% |
| SFH | 371 | 668 | 48 | 23.00 | 92.0% | 57.8% |
| SFH | 372 | 668 | 48 | 22.00 | 88.0% | 43.8% |
| SFH | 373 | 668 | 48 | 23.00 | 92.0% | 32.2% |
| SFH | 374 | 668 | 48 | 22.33 | 89.3% | 46.5% |
| SFH | 376 | 732 | 48 | 20.00 | 80.0% | 47.1% |
| VAR | 205 | 1,151 | 90 | 22.00 | 88.0% | 79.2% |
| VAR | 206 | 1,184 | 90 | 14.00 | 56.0% | 87.1% |
| VAR | 229 | 371 | 25 | 0.00 | 0.0% | n/a |
| VAR | 479 | 998 | 60 | 23.00 | 92.0% | 60.0% |
| WH | 102 | 870 | 60 | 22.00 | 88.0% | 83.9% |
| WH | 105 | 856 | 60 | 18.00 | 72.0% | 78.3% |
| WH | 124 | 1,062 | 90 | 19.00 | 76.0% | 83.9% |
| WH | 301 | 306 | 20 | 22.00 | 88.0% | 69.1% |
| WH | 313 | 500 | 25 | 15.00 | 60.0% | 85.3% |
| WH | 416 | 372 | 15 | 8.00 | 32.0% | 60.0% |
| Averages | | 888 | 56 | 19.47 | 77.9% | 65.9% |

Classroom Utilization Report

Off Peak - 8 AM to 10 am and 3pm to 5 pm
Fall 2009 Data

20 Available Weekly
Room Hours - WRH
Room Type 110 - Classrooms

| Bldg Num | Room Num | ASF | Capacity | WRH | WRH% | Station Occupancy |
|----------|----------|-------|----------|-------|-------|-------------------|
| DHE | 200 | 1,126 | 108 | 8.00 | 40.0% | 30.8% |
| DHE | 201 | 3,004 | 314 | 16.91 | 84.5% | 22.0% |
| DHE | 202 | 702 | 52 | 16.00 | 80.0% | 74.9% |
| DHE | 203 | 990 | 77 | 17.00 | 85.0% | 56.3% |
| DHE | 204 | 374 | 25 | 9.00 | 45.0% | 72.9% |
| DHE | 236 | 394 | 25 | 11.00 | 55.0% | 73.1% |
| DHE | 237 | 389 | 25 | 5.00 | 25.0% | 21.6% |
| EH | 204 | 541 | 35 | 16.33 | 81.6% | 53.8% |
| EH | 206 | 523 | 35 | 17.00 | 85.0% | 63.5% |
| EH | 208 | 686 | 45 | 14.38 | 71.9% | 61.7% |
| EH | 210 | 683 | 45 | 9.93 | 49.7% | 80.8% |

| | | | | | | |
|-----|------|-------|-----|-------|-------|--------|
| EH | 212 | 696 | 45 | 12.00 | 60.0% | 60.7% |
| EH | 214 | 902 | 44 | 5.33 | 26.7% | 79.6% |
| EH | 235 | 1,021 | 40 | 9.67 | 48.4% | 50.9% |
| EH | 237 | 1,026 | 40 | 17.67 | 88.4% | 60.0% |
| EH | 239 | 1,018 | 40 | 6.93 | 34.7% | 62.8% |
| HHS | 190 | 2,131 | 187 | 17.00 | 85.0% | 59.4% |
| HHS | 195 | 2,068 | 187 | 17.00 | 85.0% | 73.7% |
| HHS | 220 | 548 | 40 | 18.44 | 92.2% | 81.7% |
| HHS | 225 | 422 | 30 | 5.60 | 28.0% | 61.3% |
| HHS | 350 | 498 | 40 | 8.93 | 44.7% | 77.9% |
| NFH | 156 | 1,757 | 157 | 5.00 | 25.0% | 68.3% |
| NFH | 159 | 1,757 | 90 | 12.00 | 60.0% | 69.2% |
| ODH | 108 | 424 | 60 | 15.93 | 79.7% | 73.0% |
| ODH | 110 | 1,548 | 60 | 16.00 | 80.0% | 74.2% |
| ODH | 202A | 1,591 | 0 | 8.00 | 40.0% | 63.3% |
| ODH | 202B | 2,391 | 0 | 7.01 | 35.0% | 60.1% |
| ODH | 202C | 1,561 | 0 | 9.00 | 45.0% | 60.8% |
| ODH | 203 | 2,460 | 229 | 18.15 | 90.8% | 57.9% |
| ODH | 204 | 2,426 | 178 | 17.00 | 85.0% | 55.0% |
| PH | 302 | 1,660 | 72 | 9.00 | 45.0% | 74.7% |
| PH | 306 | 910 | 48 | 14.57 | 72.8% | 76.1% |
| PH | 307 | 938 | 48 | 6.55 | 32.8% | 52.9% |
| PH | 308 | 910 | 48 | 15.76 | 78.8% | 62.0% |
| PH | 309 | 930 | 48 | 14.00 | 70.0% | 55.4% |
| PH | 310 | 732 | 36 | 10.88 | 54.4% | 63.0% |
| PH | 312 | 738 | 36 | 9.00 | 45.0% | 52.2% |
| PH | 314 | 916 | 48 | 9.00 | 45.0% | 67.8% |
| PH | 316 | 918 | 48 | 9.00 | 45.0% | 31.7% |
| PH | 318 | 910 | 48 | 14.00 | 70.0% | 63.4% |
| PH | 320 | 735 | 36 | 7.98 | 39.9% | 62.2% |
| SEB | 093 | 574 | 0 | 12.44 | 62.2% | 35.8% |
| SEB | 130 | 673 | 42 | 10.00 | 50.0% | 56.2% |
| SEB | 164 | 1,131 | 64 | 16.00 | 80.0% | 65.6% |
| SEB | 168 | 1,112 | 64 | 13.00 | 65.0% | 36.2% |
| SEB | 172 | 1,130 | 64 | 13.67 | 68.4% | 66.3% |
| SEB | 185 | 883 | 50 | 10.50 | 52.5% | 29.1% |
| SEB | 187 | 543 | 36 | 13.00 | 65.0% | 54.1% |
| SEB | 364 | 428 | 30 | 5.00 | 25.0% | 26.0% |
| SEB | 372 | 1,043 | 50 | 0.00 | 0.0% | n/a |
| SEB | 376 | 669 | 30 | 9.13 | 45.7% | 130.7% |
| SEB | 378 | 618 | 30 | 7.00 | 35.0% | 26.7% |
| SEB | 384 | 654 | 44 | 9.00 | 45.0% | 33.3% |
| SEB | 386 | 607 | 40 | 16.00 | 80.0% | 58.6% |
| SEB | 388 | 607 | 30 | 14.00 | 70.0% | 47.6% |
| SFH | 163 | 985 | 70 | 12.93 | 64.7% | 52.9% |
| SFH | 164 | 667 | 48 | 19.00 | 95.0% | 49.9% |
| SFH | 165 | 992 | 75 | 13.00 | 65.0% | 46.9% |
| SFH | 166 | 667 | 48 | 11.33 | 56.6% | 57.7% |
| SFH | 167 | 667 | 30 | 15.93 | 79.7% | 54.4% |
| SFH | 168 | 667 | 48 | 17.00 | 85.0% | 46.0% |
| SFH | 169 | 667 | 40 | 14.67 | 73.4% | 46.5% |
| SFH | 170 | 667 | 48 | 12.00 | 60.0% | 45.5% |

| | | | | | | |
|-----------------|-----|------------|-----------|--------------|--------------|--------------|
| SFH | 171 | 667 | 40 | 17.00 | 85.0% | 33.7% |
| SFH | 172 | 667 | 48 | 17.00 | 85.0% | 44.2% |
| SFH | 173 | 667 | 48 | 13.00 | 65.0% | 56.1% |
| SFH | 174 | 667 | 48 | 14.55 | 72.8% | 42.6% |
| SFH | 176 | 732 | 48 | 15.67 | 78.4% | 43.4% |
| SFH | 263 | 991 | 75 | 7.10 | 35.5% | 87.4% |
| SFH | 265 | 446 | 25 | 17.00 | 85.0% | 45.4% |
| SFH | 266 | 688 | 48 | 12.00 | 60.0% | 45.1% |
| SFH | 268 | 668 | 48 | 13.10 | 65.5% | 51.3% |
| SFH | 269 | 688 | 48 | 11.00 | 55.0% | 76.3% |
| SFH | 270 | 688 | 48 | 13.00 | 65.0% | 53.0% |
| SFH | 271 | 668 | 48 | 13.00 | 65.0% | 46.2% |
| SFH | 272 | 668 | 48 | 12.00 | 60.0% | 40.5% |
| SFH | 273 | 668 | 48 | 13.00 | 65.0% | 66.0% |
| SFH | 274 | 668 | 48 | 13.00 | 65.0% | 58.8% |
| SFH | 276 | 733 | 48 | 9.00 | 45.0% | 35.2% |
| SFH | 363 | 896 | 70 | 16.00 | 80.0% | 72.9% |
| SFH | 364 | 668 | 48 | 13.00 | 65.0% | 37.0% |
| SFH | 365 | 992 | 75 | 6.00 | 30.0% | 29.8% |
| SFH | 366 | 668 | 48 | 13.00 | 65.0% | 53.2% |
| SFH | 367 | 668 | 48 | 13.00 | 65.0% | 50.6% |
| SFH | 368 | 668 | 48 | 12.00 | 60.0% | 39.8% |
| SFH | 369 | 668 | 48 | 12.00 | 60.0% | 53.0% |
| SFH | 370 | 688 | 48 | 6.00 | 30.0% | 22.9% |
| SFH | 371 | 668 | 48 | 13.00 | 65.0% | 53.5% |
| SFH | 372 | 668 | 48 | 10.00 | 50.0% | 45.4% |
| SFH | 373 | 668 | 48 | 12.00 | 60.0% | 45.5% |
| SFH | 374 | 668 | 48 | 11.26 | 56.3% | 55.3% |
| SFH | 376 | 732 | 48 | 11.00 | 55.0% | 55.7% |
| VAR | 205 | 1,151 | 90 | 16.00 | 80.0% | 73.9% |
| VAR | 206 | 1,184 | 90 | 12.00 | 60.0% | 65.6% |
| VAR | 229 | 371 | 25 | 0.00 | 0.0% | n/a |
| VAR | 479 | 998 | 60 | 13.00 | 65.0% | 24.1% |
| WH | 102 | 870 | 60 | 10.00 | 50.0% | 62.7% |
| WH | 105 | 856 | 60 | 9.00 | 45.0% | 58.1% |
| WH | 124 | 1,062 | 90 | 13.00 | 65.0% | 69.6% |
| WH | 301 | 306 | 20 | 6.00 | 30.0% | 43.3% |
| WH | 313 | 500 | 25 | 17.00 | 85.0% | 74.4% |
| WH | 416 | 372 | 15 | 4.00 | 20.0% | 33.3% |
| Averages | | 888 | 56 | 11.87 | 59.3% | 61.5% |

Classroom Utilization Report

Evening 5 PM - 10 PM
Fall 2009 Data

25 Available Weekly
Room Hours - WRH
Room Type 110 - Classrooms

| Bldg Num | Room Num | ASF | Capacity | WRH | WRH% | Station Occupancy |
|----------|----------|-------|----------|-------|-------|-------------------|
| DHE | 200 | 1,126 | 108 | 16.43 | 65.7% | 56.3% |
| DHE | 201 | 3,004 | 314 | 12.00 | 48.0% | 27.8% |
| DHE | 202 | 702 | 52 | 17.00 | 68.0% | 13.8% |

| | | | | | | |
|-----|------|-------|-----|-------|-------|-------|
| DHE | 203 | 990 | 77 | 13.00 | 52.0% | 25.7% |
| DHE | 204 | 374 | 25 | 9.00 | 36.0% | 56.9% |
| DHE | 236 | 394 | 25 | 9.00 | 36.0% | 74.2% |
| DHE | 237 | 389 | 25 | 13.00 | 52.0% | 62.5% |
| EH | 204 | 541 | 35 | 13.70 | 54.8% | 40.8% |
| EH | 206 | 523 | 35 | 8.60 | 34.4% | 74.8% |
| EH | 208 | 686 | 45 | 14.20 | 56.8% | 58.2% |
| EH | 210 | 683 | 45 | 13.20 | 52.8% | 43.6% |
| EH | 212 | 696 | 45 | 16.20 | 64.8% | 65.5% |
| EH | 214 | 902 | 44 | 12.70 | 50.8% | 68.8% |
| EH | 235 | 1,021 | 40 | 13.42 | 53.7% | 68.9% |
| EH | 237 | 1,026 | 40 | 14.92 | 59.7% | 59.5% |
| EH | 239 | 1,018 | 40 | 13.70 | 54.8% | 52.4% |
| HHS | 190 | 2,131 | 187 | 8.00 | 32.0% | 44.4% |
| HHS | 195 | 2,068 | 187 | 14.13 | 56.5% | 43.2% |
| HHS | 220 | 548 | 40 | 24.11 | 96.4% | 66.3% |
| HHS | 225 | 422 | 30 | 12.10 | 48.4% | 58.6% |
| HHS | 350 | 498 | 40 | 15.52 | 62.1% | 74.6% |
| NFH | 156 | 1,757 | 157 | 12.70 | 50.8% | 37.2% |
| NFH | 159 | 1,757 | 90 | 8.27 | 33.1% | 56.6% |
| ODH | 108 | 424 | 60 | 11.15 | 44.6% | 36.2% |
| ODH | 110 | 1,548 | 60 | 15.75 | 63.0% | 41.9% |
| ODH | 202A | 1,591 | 0 | 8.60 | 34.4% | 46.4% |
| ODH | 202B | 2,391 | 0 | 3.55 | 14.2% | 43.1% |
| ODH | 202C | 1,561 | 0 | 13.00 | 52.0% | 40.2% |
| ODH | 203 | 2,460 | 229 | 4.55 | 18.2% | 60.9% |
| ODH | 204 | 2,426 | 178 | 5.00 | 20.0% | 34.4% |
| PH | 302 | 1,660 | 72 | 14.70 | 58.8% | 55.8% |
| PH | 306 | 910 | 48 | 13.70 | 54.8% | 55.6% |
| PH | 307 | 938 | 48 | 14.20 | 56.8% | 71.5% |
| PH | 308 | 910 | 48 | 10.65 | 42.6% | 57.8% |
| PH | 309 | 930 | 48 | 13.70 | 54.8% | 50.5% |
| PH | 310 | 732 | 36 | 15.20 | 60.8% | 50.7% |
| PH | 312 | 738 | 36 | 13.70 | 54.8% | 51.8% |
| PH | 314 | 916 | 48 | 10.65 | 42.6% | 81.4% |
| PH | 316 | 918 | 48 | 10.65 | 42.6% | 57.5% |
| PH | 318 | 910 | 48 | 13.20 | 52.8% | 44.0% |
| PH | 320 | 735 | 36 | 14.20 | 56.8% | 59.8% |
| SEB | 093 | 574 | 0 | 8.55 | 34.2% | 37.8% |
| SEB | 130 | 673 | 42 | 14.43 | 57.7% | 48.8% |
| SEB | 164 | 1,131 | 64 | 16.00 | 64.0% | 30.1% |
| SEB | 168 | 1,112 | 64 | 17.00 | 68.0% | 60.9% |
| SEB | 172 | 1,130 | 64 | 17.00 | 68.0% | 68.4% |
| SEB | 185 | 883 | 50 | 16.50 | 66.0% | 31.8% |
| SEB | 187 | 543 | 36 | 14.60 | 58.4% | 33.7% |
| SEB | 364 | 428 | 30 | 11.21 | 44.8% | 37.4% |
| SEB | 372 | 1,043 | 50 | 12.00 | 48.0% | 30.0% |
| SEB | 376 | 669 | 30 | 10.78 | 43.1% | 18.6% |
| SEB | 378 | 618 | 30 | 17.00 | 68.0% | 47.8% |
| SEB | 384 | 654 | 44 | 9.00 | 36.0% | 39.9% |
| SEB | 386 | 607 | 40 | 13.05 | 52.2% | 47.3% |
| SEB | 388 | 607 | 30 | 16.22 | 64.9% | 56.1% |

| | | | | | | |
|-----------------|-----|------------|-----------|--------------|--------------|--------------|
| SFH | 163 | 985 | 70 | 14.75 | 59.0% | 52.4% |
| SFH | 164 | 667 | 48 | 16.30 | 65.2% | 43.5% |
| SFH | 165 | 992 | 75 | 12.10 | 48.4% | 41.6% |
| SFH | 166 | 667 | 48 | 10.15 | 40.6% | 42.2% |
| SFH | 167 | 667 | 30 | 11.87 | 47.5% | 124.0% |
| SFH | 168 | 667 | 48 | 14.20 | 56.8% | 43.8% |
| SFH | 169 | 667 | 40 | 10.65 | 42.6% | 71.1% |
| SFH | 170 | 667 | 48 | 16.20 | 64.8% | 39.0% |
| SFH | 171 | 667 | 40 | 11.55 | 46.2% | 39.8% |
| SFH | 172 | 667 | 48 | 13.70 | 54.8% | 36.4% |
| SFH | 173 | 667 | 48 | 12.00 | 48.0% | 40.3% |
| SFH | 174 | 667 | 48 | 13.20 | 52.8% | 77.1% |
| SFH | 176 | 732 | 48 | 14.70 | 58.8% | 53.7% |
| SFH | 263 | 991 | 75 | 11.10 | 44.4% | 59.1% |
| SFH | 265 | 446 | 25 | 11.10 | 44.4% | 51.8% |
| SFH | 266 | 688 | 48 | 15.20 | 60.8% | 72.0% |
| SFH | 268 | 668 | 48 | 12.65 | 50.6% | 45.9% |
| SFH | 269 | 688 | 48 | 14.70 | 58.8% | 63.2% |
| SFH | 270 | 688 | 48 | 15.20 | 60.8% | 47.4% |
| SFH | 271 | 668 | 48 | 12.65 | 50.6% | 50.3% |
| SFH | 272 | 668 | 48 | 16.10 | 64.4% | 42.9% |
| SFH | 273 | 668 | 48 | 14.20 | 56.8% | 38.1% |
| SFH | 274 | 668 | 48 | 12.10 | 48.4% | 40.9% |
| SFH | 276 | 733 | 48 | 13.37 | 53.5% | 54.0% |
| SFH | 363 | 896 | 70 | 16.20 | 64.8% | 53.9% |
| SFH | 364 | 668 | 48 | 9.55 | 38.2% | 49.8% |
| SFH | 365 | 992 | 75 | 8.00 | 32.0% | 36.0% |
| SFH | 366 | 668 | 48 | 11.60 | 46.4% | 30.4% |
| SFH | 367 | 668 | 48 | 13.70 | 54.8% | 42.4% |
| SFH | 368 | 668 | 48 | 9.10 | 36.4% | 40.8% |
| SFH | 369 | 668 | 48 | 11.15 | 44.6% | 45.1% |
| SFH | 370 | 688 | 48 | 11.20 | 44.8% | 38.2% |
| SFH | 371 | 668 | 48 | 13.70 | 54.8% | 53.4% |
| SFH | 372 | 668 | 48 | 14.20 | 56.8% | 52.8% |
| SFH | 373 | 668 | 48 | 6.55 | 26.2% | 25.2% |
| SFH | 374 | 668 | 48 | 11.10 | 44.4% | 27.1% |
| SFH | 376 | 732 | 48 | 13.00 | 52.0% | 40.1% |
| VAR | 205 | 1,151 | 90 | 9.10 | 36.4% | 82.1% |
| VAR | 206 | 1,184 | 90 | 11.65 | 46.6% | 40.9% |
| VAR | 229 | 371 | 25 | 0.00 | 0.0% | n/a |
| VAR | 479 | 998 | 60 | 14.20 | 56.8% | 48.0% |
| WH | 102 | 870 | 60 | 14.20 | 56.8% | 60.1% |
| WH | 105 | 856 | 60 | 15.20 | 60.8% | 64.6% |
| WH | 124 | 1,062 | 90 | 6.60 | 26.4% | 37.0% |
| WH | 301 | 306 | 20 | 14.20 | 56.8% | 65.1% |
| WH | 313 | 500 | 25 | 12.32 | 49.3% | 76.1% |
| WH | 416 | 372 | 15 | 7.10 | 28.4% | 69.8% |
| Averages | | 888 | 56 | 12.53 | 50.1% | 48.9% |

FACILITY CONDITION ASSESSMENT

PLANT RENEWAL, DEFERRED PLANT RENEWAL & PLANT ADAPTATION BACKLOG

The Facilities management computerized Capital Asset Management (CAM) program is a relational database management system, containing approximately 1275 projects; totaling over \$189 million. In addition to this summary report, the database is capable of producing ad-hoc reports by priority rank, building system, and backlog category.

The objective with this document, in addition to identifying our needs, is to raise awareness of the deferred plant renewal liability, and to serve as a point of departure for broader facilities planning.

The original Facilities Condition Assessment was completed in 2006 and was updated in 2007 for IT related projects for the entire campus. In addition, a Facilities Condition Assessment was completed for the following four academic buildings (O'Dowd Hall, North Foundation Hall, Hannah Hall of Science, and Wilson Hall) and two housing buildings (Hamlin Hall and Vandenberg Hall) in the current year. These assessments identified needs, established scope, determined preliminary costs, and prioritized facility projects for the University.

| | | Million Dollar | | | |
|---------------------------------|------------------------------|----------------|-----------------|--------------|----------------|
| System Code | System Description | 2010 Reported | Closed Projects | New Projects | 2011 Totals |
| AC | Accessibility | \$ 3.02 | \$ 0.35 | \$ 1.46 | \$ 4.13 |
| EL | Electrical | \$ 7.31 | \$ 0.43 | \$ 4.22 | \$ 11.10 |
| EN | Energy | \$ 3.19 | \$ 2.22 | \$ 1.24 | \$ 2.21 |
| ES | Exterior System | \$ 21.67 | \$ 8.91 | \$ 2.38 | \$ 15.15 |
| FS | Fire/Life Safety | \$ 7.34 | \$ 0.56 | \$ 6.94 | \$ 13.72 |
| HE | Health | \$ 1.07 | \$ 0.78 | — | \$ 0.29 |
| HT | High Temp / Hot Water | \$ 22.37 | \$ 5.42 | \$ 3.95 | \$ 20.90 |
| HV | HVAC | \$ 26.08 | \$ 1.81 | \$ 8.12 | \$ 32.99 |
| IS | Interior System | \$ 27.97 | \$ 5.23 | \$ 3.70 | \$ 26.44 |
| IT | Information Technology | \$ 23.53 | \$ 3.33 | \$ 1.48 | \$ 21.68 |
| PL | Plumbing | \$ 3.91 | \$ 0.01 | \$ 18.16 | \$ 22.06 |
| RW | Roads / Walks / Parking Lots | \$ 7.22 | \$ 2.73 | \$ 2.48 | \$ 2.01 |
| SI | Site | \$ 15.57 | \$ 0.71 | \$ 0.76 | \$ 14.10 |
| SS | Security Systems | \$ 1.32 | \$ 1.31 | — | \$ 0.01 |
| VT | Elevator | \$ 3.23 | \$ 0.02 | \$ 0.11 | \$ 3.11 |
| | | \$174.81 | \$ 33.82 | \$ 55.59 | \$189.88 |
| NET CHANGE FROM PREVIOUS | | | | | \$15.07 |

Note: \$6.7M of projects were eliminated as a result of duplicate projects, not viable projects, and canceled future projects.

DEFINITIONS

Capital Asset Management is a systematic approach to renewing the University's capital assets through planned:

Plant Renewal

Deferred Plant Renewal

Plant Adaptation

These terms have been formally defined by the National Association of College and University Business Officers (NACUBO) as follows:

Plant Renewal

"...a systematic approach to planning and budgeting for known future cyclical renewal and replacement requirements that extend the (present) life and retain the usable condition of campus facilities and (building) systems ... not normally contained in the annual operating budget. ..." (NACUBO) Cyclical renewals typically exceed five year cycles and include such items as roof replacement, electrical switchgear, and HVAC system replacement. These expenditures keep the physical plant and related infrastructure in reliable operating condition for its present use.

Deferred Plant Renewal

"... encompasses measures that are not carried out because of underfunding in the budgeting process or perceived low priority..." (NACUBO) This includes actual projects, from the prior or current years, not included in the routine maintenance work. These projects represent "Postponed Work" that was deferred because total costs exceed current budget, or projects that are of a "low priority" that present a minimal return on investment. Also included in the Deferred Plant Renewal project list are those projects that were shifted because funds were re-allocated to address emergencies that have no other funding source.

Plant Adaptation

"...improvements are driven by institutional program changes ..." (NACUBO) This involves a programmatic process to plan and fund for projects that will be required due to an evolving use of the institution (e.g., changes in academic disciplines, shifting expectations, supporting institutional mission, etc.), or changing standards (e.g., campus master plans, architectural standards, etc.). These expenditures are over and above normal maintenance, and are not typically contained in the annual operating budget.

FACILITY CONDITION ASSESMENT RANKING

PRIORITY 1

Current Critical (immediate or current year)

Projects in this category require immediate action to:

- Return a facility to normal operation
- Stop accelerated deterioration
- Correct a cited safety hazard

PRIORITY 2

Potentially Critical (within one year)

Projects in this category, if not corrected expeditiously, will become critical within a year. Situations in this category include:

- Intermittent interruptions
- Rapid deterioration
- Potential safety hazard

PRIORITY 3

Necessary – Not Yet Critical (within years two – five)

Projects in this category include conditions requiring prompt attention to preclude predictable deterioration or potential down time and associated higher costs if deferred further.

PRIORITY 4

Recommended (within years six – ten)

Projects in this category include items that represent a sensible improvement to existing conditions. These are not required for the most basic function of a facility; however, Priority 4 projects will either improve overall usability and/or reduce long-term maintenance.

PRIORITY 5

Recommended (beyond year ten)

Projects in this category may not improve overall usability and/or reduce long-term maintenance; however, they provide an economic payback that would not otherwise be present. Projects in this category may represent to upgrade buildings with current codes during major renovation projects. Projects in this category may also represent non-time based improvement, upgrade, or recommendation.

SOURCE: Association of Higher Education Facilities Officers (APPA)

ABBREVIATIONS

CAMPUS SYSTEM - Accessibility (AC)
 Electrical (EL)
 Energy Management (EN)
 Exterior Structure (ES)
 Fire/Life Safety (FS)
 Health (HE)
 High Temperature / Heat Water (HT)
 HVAC (HV)
 Information Technology (IT)
 Interior / Finish System (IS)
 Plumbing (PL)
 Roads, Walks, Parking Lots (RW)
 Site (SI)
 Vertical Transportation (VT)
 Security Systems (SS)

CATEGORY - Plant Renewal (PR)
 Deferred Plant Renewal (DPR)
 Plant Adaptation (PA)

FACILITIES CONDITION NEEDS INDEX (FCNI) Facility Condition Needs Index provides a relative measure for comparing one building (or group of buildings) to another. The index is a simple calculation, derived by dividing the total project costs (for the ten-year window) by the total facility replacement cost (FRC). When applying the index as an evaluation tool, the lower the number, the better the facility condition. It should also be noted that this is an index, not a percentage. It can (and often does in the case of historic facilities) exceed 1.00.

Facility Condition Needs Index

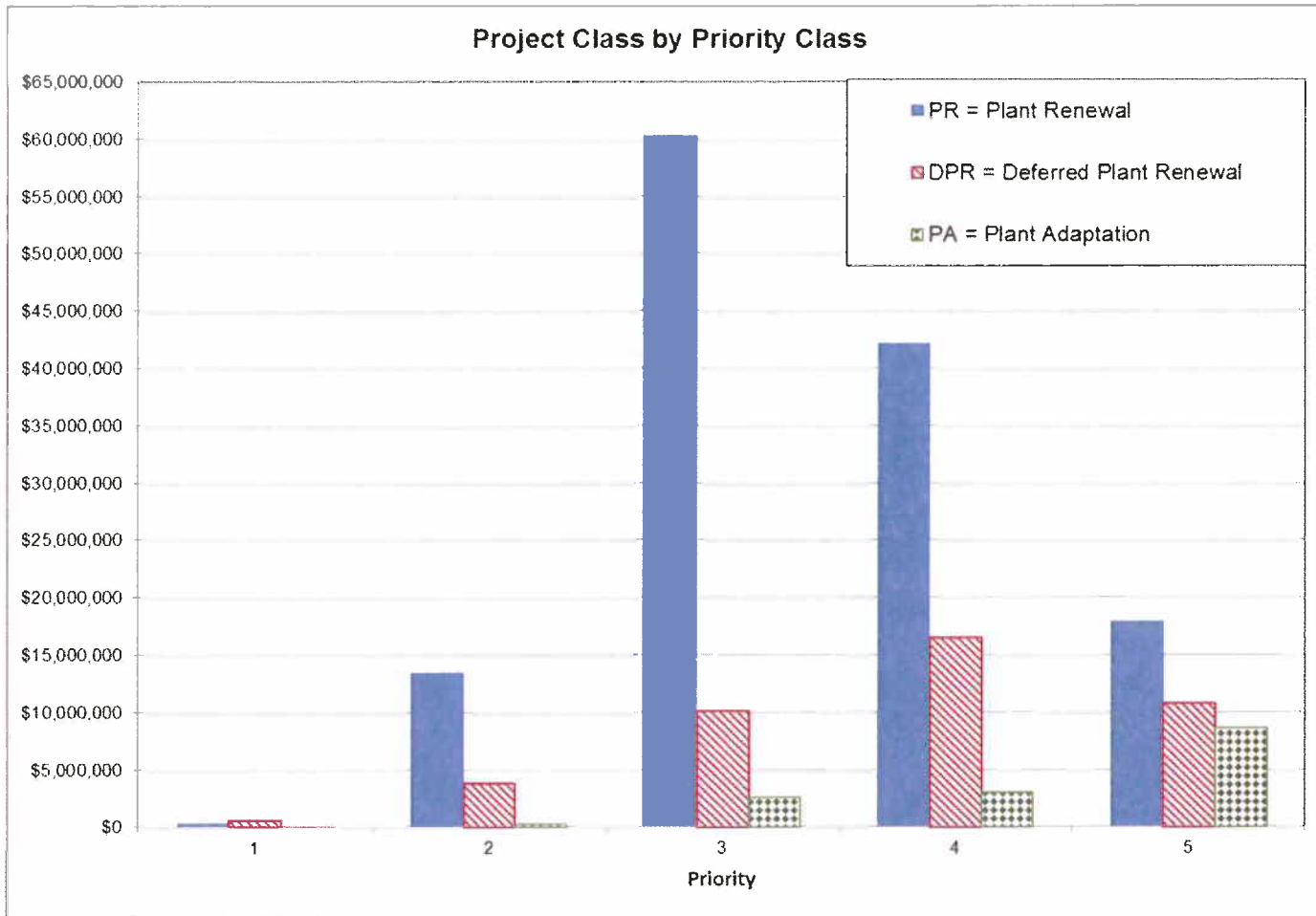
| Individual Building FCNI Range | Condition Description |
|-----------------------------------|--|
| 0.01– 0.05 | Excellent condition, typically new construction |
| 0.06 – 0.15 | Good condition, renovations occur on schedule |
| 0.16 – 0.30 | Fair condition, in need of normal renovation |
| 0.31 – 0.40 | Below average condition, major renovation required |
| 0.41 – 0.59 | Poor condition, gut / renovation indicated |
| 0.60 and above | Complete facility replacement indicated |

FACILITIES REPLACEMENT COST FRC is reported as the total replacement cost for the building or structure and its contents or fixed assets. As an example, the FRC for student housing includes the replacement cost for the building and all the fixtures within each room. Likewise, the FRC for a central heating plant would include the cost of the structure and the boilers, generators and other equipment contained within.

**Executive Summary
Facility Condition
Analysis
Totals by Building**

| Building Code | Building Name | Use | Square Feet | FRC | Project Costs | FCNI Total | Benchmark Per APPA |
|----------------------|--|--------------|------------------|----------------------|----------------------|-------------|-------------------------------|
| ANI | Anibal House | HS | 20,487 | \$3,661,148 | \$963,643 | 0.26 | Fair Condition |
| ASD | Athletic Sports Dome | UNIV | 30,557 | \$5,061,915 | \$2,251,137 | 0.44 | Poor Condition |
| AVN | Ann V. Nicholson Apartments | HS | 181,291 | \$20,502,624 | \$1,009,577 | 0.05 | Excellent Condition |
| BB | Belgian Barn | AUX | 9,324 | \$665,193 | \$205,702 | 0.31 | Below Average |
| BGM | Building Grounds & Maintenance Bldg | UNIV | 14,400 | \$1,281,469 | \$661,271 | 0.52 | Poor Condition |
| BRS | Biomedical Research Support Facility | UNIV | 14,300 | \$4,737,729 | \$510,940 | 0.11 | Good Condition |
| CCC | Chicken Coop Center | AUX | 7,322 | \$675,852 | \$202,737 | 0.30 | Fair Condition |
| CHP | Central Heating Plant | UNIV | 16,833 | \$22,307,744 | \$4,851,960 | 0.22 | Fair Condition |
| DHE | Dodge Hall of Engineering | AD | 151,204 | \$41,402,405 | \$9,145,333 | 0.22 | Fair Condition |
| EC | East Campus | AUX | 248,049 | \$33,130,969 | \$1,381,025 | 0.04 | Excellent Condition |
| EH | Elliott Hall | AD | 74,582 | \$14,720,397 | \$1,434,646 | 0.10 | Good Condition |
| FM | Facilities Management Building | AD | 3,300 | \$273,085 | \$383,002 | 1.40 | Complete Facility Replacement |
| FTZ | Fitzgerald House | HS | 20,610 | \$3,683,128 | \$1,200,316 | 0.33 | Below Average |
| GAT | Gatehouse at MBH | UNIV | 2,032 | \$860,622 | \$132,587 | 0.15 | Historical |
| GHC | Graham Health Center | UNIV | 13,161 | \$2,027,093 | \$536,809 | 0.26 | Fair Condition |
| GLF | Golf Courses | AUX | 12,331 | \$22,087,313 | \$5,075,733 | 0.23 | Fair Condition |
| GRN | Greenhouse | UNIV | 3,630 | \$601,327 | \$741,814 | 1.23 | Historical |
| GTM | George T. Matthews Apartments | HS | 47,464 | \$6,985,623 | \$1,310,468 | 0.19 | Fair Condition |
| HAM | Hamiin Hall | HS | 143,872 | \$32,068,705 | \$14,628,188 | 0.46 | Poor Condition |
| HHS | Hannah Hall of Science | AD | 89,418 | \$42,462,000 | \$14,895,488 | 0.35 | Below Average |
| HIL | Hill House | HS | 42,522 | \$9,478,047 | \$2,813,341 | 0.30 | Fair Condition |
| JDH | John Dodge House | AD | 10,696 | \$1,781,662 | \$765,463 | 0.43 | Poor Condition |
| KCC | Katke-Cousins Club House | AUX | 6,038 | \$1,000,224 | \$223,132 | 0.22 | Fair Condition |
| KL | Kresge Library | AD | 164,522 | \$26,841,765 | \$2,733,401 | 0.10 | Good Condition |
| MBH | Meadow Brook Hall | AUX | 78,002 | \$44,174,626 | \$9,214,788 | 0.21 | Fair Condition |
| MC | Main Campus | UNIV | | \$110,436,565 | \$33,407,378 | 0.30 | Fair Condition |
| NFH | North Foundation Hall | AD | 67,691 | \$22,524,000 | \$7,390,411 | 0.33 | Below Average |
| OC | Oakland Center | AD | 146,693 | \$23,523,983 | \$4,317,664 | 0.18 | Fair Condition |
| ODH | O'Dowd Hall | AD | 105,000 | \$41,449,001 | \$8,572,553 | 0.21 | Fair Condition |
| OUInc.1 | O.U. INCubator (Health Enhancement Bldg) | UNIV | 11,385 | \$1,779,527 | \$400,176 | 0.22 | Fair Condition |
| OUInc.2 | O.U. INCubator (Shotwell Gustafson) | AUX | 25,850 | \$4,282,178 | \$812,905 | 0.19 | Fair Condition |
| PH | Pawley Hall | AD | 132,406 | \$28,636,853 | \$3,488,237 | 0.12 | Good Condition |
| PRY | Pryale Hall | AD | 20,829 | \$3,802,239 | \$990,831 | 0.26 | Fair Condition |
| PSS | Police & Support Services | UNIV | 26,444 | \$4,167,443 | \$963,684 | 0.23 | Fair Condition |
| SEB | Science & Engineering Building | AD | 165,494 | \$51,568,543 | \$4,801,782 | 0.09 | Good Condition |
| SFH | South Foundation Hall | AD | 55,041 | \$10,047,484 | \$1,696,664 | 0.17 | Fair Condition |
| SRAC | Student Recreation & Athletic Center | AD | 253,494 | \$41,646,759 | \$3,161,382 | 0.08 | Good Condition |
| SS | Spenser Substation | UNIV | 14,769 | \$2,446,556 | \$73,476 | 0.03 | Excellent Condition |
| SST | Sunset Terrace | HS | 12,587 | \$2,513,109 | \$469,124 | 0.19 | Fair Condition |
| VAR | Varner Hall | AD | 119,939 | \$34,209,874 | \$6,442,307 | 0.19 | Fair Condition |
| VBH | Vandenberg Hall | HS | 178,321 | \$39,747,301 | \$15,451,671 | 0.39 | Below Average |
| VWH | Van Wagner House | HS | 43,305 | \$9,652,575 | \$2,530,657 | 0.26 | Fair Condition |
| WH | Wilson Hall & Meadow Brook Theatre | AD | 98,153 | \$38,899,002 | \$17,640,917 | 0.45 | Poor Condition |
| Grand Totals: | | sqft | 2,883,348 | \$813,805,657 | \$189,884,325 | 0.23 | Fair Condition |
| | | acres | | 1,443 | | | |

Note: The FRC excludes furnishings and user equipment.



Detailed Project Totals Facility Condition Analysis Project Class by Priority Class

| Project Classification | Priority 1 | Priority 2 | Priority 3 | Priority 4 | Priority 5 | Subtotal |
|------------------------|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Plant Renewal | 283,655 | 13,372,643 | 60,277,090 | 42,087,539 | 17,839,629 | 133,860,555 |
| Deferred Plant Renewal | 488,129 | 3,779,892 | 10,108,609 | 16,503,847 | 10,716,302 | 41,596,779 |
| Plant Adaptation | 59,142 | 197,604 | 2,533,472 | 3,025,169 | 8,611,604 | 14,426,991 |
| TOTALS | \$830,926 | \$17,350,139 | \$72,919,171 | \$61,616,555 | \$37,167,535 | \$189,884,325 |

| | |
|----------------------------------|----------------------|
| Facility Replacement Cost | \$813,805,657 |
|----------------------------------|----------------------|

| | |
|---------------------------------|-------------|
| Facility Condition Index | 0.23 |
|---------------------------------|-------------|

| | |
|-----------------------------------|----------------|
| Total Cost per Square Foot | \$65.86 |
|-----------------------------------|----------------|

| | |
|--------------------------|------------------|
| Gross Square Feet | 2,883,348 |
|--------------------------|------------------|

**Detailed Project Totals
Facility Condition Analysis
System Class by Priority Class**

| System Code | System Description | Priority Classes | | | | | Subtotal |
|---------------|------------------------------|------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| | | 1 | 2 | 3 | 4 | 5 | |
| | | FY'12 | FY'13 | FY'14-17 | FY'18-21 | FY'22+ | |
| AC | Accessibility | 41,297 | 309,357 | 1,088,572 | 1,700,186 | 992,749 | 4,132,160 |
| EL | Electrical | 53,330 | 58,627 | 1,239,867 | 1,206,832 | 8,536,997 | 11,095,653 |
| EN | Energy | 7,158 | 89,494 | 1,438,090 | 671,773 | 6,698 | 2,213,212 |
| ES | Exterior System | 186,287 | 1,026,294 | 5,728,732 | 7,185,285 | 1,018,560 | 15,145,158 |
| FS | Fire/Life Safety | 197,452 | 777,969 | 3,583,768 | 3,399,378 | 5,762,784 | 13,721,352 |
| HE | Health | 22,864 | 122,488 | 122,516 | 0 | 17,559 | 285,427 |
| HT | High Temp / Heat Water | 581 | 6,118,593 | 4,189,752 | 10,547,516 | 42,580 | 20,899,021 |
| HV | HVAC | 191,889 | 1,240,083 | 11,153,035 | 16,979,310 | 3,429,760 | 32,994,077 |
| IS | Interior / Finish System | 70,143 | 2,189,314 | 9,070,629 | 10,343,174 | 4,765,299 | 26,438,559 |
| IT | Information Technology | 0 | 80,083 | 21,537,050 | 58,642 | 0 | 21,675,774 |
| PL | Plumbing | 34,003 | 4,765,168 | 8,809,412 | 5,441,911 | 3,009,863 | 22,060,357 |
| RW | Roads / Walks / Parking Lots | 0 | 42,877 | 1,402,153 | 529,912 | 39,772 | 2,014,713 |
| SI | Site | 20,790 | 417,713 | 1,661,847 | 3,052,637 | 8,945,292 | 14,098,278 |
| SS | Security Systems | 5,134 | 0 | 0 | 0 | 0 | 5,134 |
| VT | Vertical Transportation | 0 | 112,081 | 1,893,749 | 500,000 | 599,621 | 3,105,451 |
| TOTALS | | \$830,926 | \$17,350,139 | \$72,919,171 | \$61,616,555 | \$37,167,535 | \$189,884,325 |

| | |
|-------------------------------|----------------------|
| Plant Renewal | \$133,860,555 |
| Deferred Plant Renewal | \$41,596,779 |
| Plant Adaptation | \$14,426,991 |

| | |
|----------------------------------|----------------------|
| Facility Replacement Cost | \$813,805,657 |
|----------------------------------|----------------------|

| | |
|---------------------------------|-------------|
| Facility Condition Index | 0.23 |
|---------------------------------|-------------|

| | |
|-----------------------------------|----------------|
| Total Cost per Square Foot | \$65.86 |
|-----------------------------------|----------------|

| | |
|-------------------------------|----------------------|
| Gross Square Feet | 2,883,348 |
| Plant Renewal | \$133,860,555 |
| Deferred Plant Renewal | \$41,596,779 |
| Plant Adaptation | \$13,830,633 |

| | |
|----------------------------------|----------------------|
| Facility Replacement Cost | \$813,805,657 |
|----------------------------------|----------------------|

| | |
|---------------------------------|-------------|
| Facility Condition Index | 0.23 |
|---------------------------------|-------------|

| | |
|-----------------------------------|----------------|
| Total Cost per Square Foot | \$65.65 |
|-----------------------------------|----------------|

| | |
|--------------------------|------------------|
| Gross Square Feet | 2,883,348 |
|--------------------------|------------------|

**Detailed Project Totals
Facility Condition analysis
System Class by Category**

| System Code | System Description | Plant Renewal | Deferred Plant Renewal | Plant Adaptation | Subtotal | % |
|---------------|------------------------------|----------------------|------------------------|---------------------|----------------------|----------------|
| AC | Accessibility | 383,111 | 2,734,142 | 1,014,906 | 4,132,160 | 2.18% |
| EL | Electrical | 6,757,694 | 3,428,050 | 909,910 | 11,095,653 | 5.84% |
| EN | Energy | 1,501,215 | 706,475 | 5,522 | 2,213,212 | 1.17% |
| ES | Exterior System | 11,701,617 | 3,360,541 | 83,001 | 15,145,158 | 7.98% |
| FS | Fire/Life Safety | 7,722,105 | 759,978 | 5,239,268 | 13,721,352 | 7.23% |
| HE | Health | 28,585 | 223,485 | 33,356 | 285,427 | 0.15% |
| HT | High Temp / Hot Water | 15,606,062 | 5,292,960 | 0 | 20,899,021 | 11.01% |
| HV | HVAC | 25,546,737 | 6,558,679 | 888,660 | 32,994,077 | 17.38% |
| IS | Interior System | 19,883,870 | 4,466,663 | 2,088,026 | 26,438,559 | 13.92% |
| IT | Information Technology | 21,595,692 | 0 | 80,083 | 21,675,774 | 11.42% |
| PL | Plumbing | 20,854,773 | 1,133,252 | 72,332 | 22,060,357 | 11.62% |
| RW | Roads / Walks / Parking Lots | 627,718 | 400,233 | 986,762 | 2,014,713 | 1.06% |
| SI | Site | 759,324 | 10,313,789 | 3,025,165 | 14,098,278 | 7.42% |
| SS | Security Systems | 5,134 | 0 | 0 | 5,134 | 0.00% |
| VT | Vertical Transportation | 886,920 | 2,218,531 | 0 | 3,105,451 | 1.64% |
| TOTALS | | \$133,860,555 | \$41,596,779 | \$14,426,991 | \$189,884,325 | 100.00% |

| | |
|-----------------------------------|----------------------|
| Plant Renewal | \$133,860,555 |
| Deferred Plant Renewal | \$41,596,779 |
| Plant Adaptation | \$14,426,991 |
| Facility Replacement Cost | \$813,805,657 |
| Facility Condition Index | 0.23 |
| Total Cost per Square Foot | \$65.86 |
| Gross Square Feet | 2,883,348 |

V. Implementation Plan

State Funding Request

Per guidance in the State Budget Office letter of September 1, 2011, Subject: **Fiscal Year 2013 Capital Outlay Budget Information**, only Oakland University's top priority capital outlay request is to be submitted. In accordance with that guidance, Oakland University provides the following as the top priority:

Oakland University Engineering Center (\$74,551,739)

The proposed Oakland University Engineering Center (OUEC) is the University's highest priority capital outlay request and is designed to provide high quality twenty first century instructional and research facilities for all engineering and computer science programs that are vital to the revival of the economy of Southeast Michigan as well as the State of Michigan in general. This includes supporting the global competitiveness of the US alternative energy, health care and bio-medical, automotive, defense, and other high-tech industries. The OUEC will add approximately 68,340 square feet of assignable space to the School of Engineering and Computer Science (SECS), sufficient to house two-thirds of the School, as well as 10,000 square feet of assignable general purpose classroom space to support the growth of the overall student population. The project includes repair/renovation of space being vacated by functions moving into the new OUEC.

Supplemental State Funding Requests

In the future, as additional state projects are considered, Oakland University has need for the following based on program growth, opportunity and State needs:

Oakland University Communication / Arts/ Media / Performance Center

The proposed *Oakland University Communication / Arts/ Media / Performance Center* (CAMP) is the University's second highest priority capital outlay request and is designed to provide appropriate academic and studio facilities for these high demand programs. The project will encompass new construction as well as the renovation of existing space and will provide new general purpose classrooms that will accommodate 1,000 students.

NFH Student Services Addition

The proposed 19,400 square foot addition will enable advising services to be in one location and allow for a major upgrade of two heavily used classrooms, bathrooms and the conversion of existing office space adjacent to these services into classrooms.

University Funded Priorities

Campus Infrastructure (funded)

These projects are presently under construction or are in design. They include improvements to the existing high temperature hot water distribution system, the construction of an independent and secure structure that will house information technology hardware, and the renovation of O'Dowd Hall's curtain wall system.

Stephen Sharf Clubhouse (funded)

The proposed 10,000 square feet clubhouse will support the activities and operations of Oakland University's Golf and Learning Center. It will be completely funded by Stephen Sharf, a longtime supporter of Oakland University.

Hannah Hall Lab Renovation (not funded)

The renovation of approximately 10,000 square feet on the third and fourth floors of Hannah Hall for a new gross anatomy lab and other academic departments. Work will commence once the School of Health Sciences moves to the Human Health Building.

Undergraduate Student Housing (not funded)

The goal of the undergraduate student housing development is to provide an additional 440 beds on Oakland's campus. Expanding housing is in keeping with the campus master plan goal of having 4,000 residential students at Oakland University by year 2030.

Parking Garage (not funded)

A new parking deck would provide 660 additional parking spaces to accommodate the increased demand as Oakland University grows.

Plant Renewal / Deferred Plant Renewal

As previously noted, Plant Renewal and Deferred Plant Renewal projects total \$175 million of the \$190 million Facility Condition Analysis. The current annual investment into maintenance is approximately \$1.6 million from General Fund budgets and maintenance endowments; \$1.5 million from Auxiliaries Maintenance Reserves; and \$0.7 million from Information Technology budgets.

ATTACHMENT B

Oakland University
Fiscal Year 2013 CAPITAL OUTLAY PROJECT REQUEST
Engineering Center
Total Project Cost: \$74,551,739
November, 2011



| | | |
|--|-------------------|------------------|
| <i>Is The Project A Renovation or New Construction?</i> | Ren <u> x </u> | New <u> x </u> |
| <i>Is There a 5 Year Master Plan Available?</i> | Yes <u> x </u> | No <u> </u> |
| <i>Are Professionally Developed <u>Program Statement</u> and/or Schematic Plans Available Now?</i> | Yes <u> x </u> | No <u> </u> |
| <i>Are Match Resources Currently Available?</i> | Yes <u> x* </u> | No <u> </u> |
| <i>Has the University Identified Available Operating Funds?</i> | Yes <u> x </u> | No <u> </u> |

*See Paragraph D below

A. Project Description Narrative

The proposed 128,428 square foot Oakland University Engineering Center (OUEC) building will provide state-of-the-art instructional, research and development space for Oakland University's School of Engineering and Computer Science (SECS). The proposed building is designed to provide high quality twenty-first century instructional and research facilities for OU's engineering and computer science programs that are vital to the revival of the economy of Southeast Michigan as well as the State of Michigan in general. The mission of the SECS includes supporting the global competitiveness of US alternative energy, health care and bio-medical, automotive, defense, and other high-tech industries. The OUEC will not only provide a highly visible focal point to the instructional, research and development activities of the SECS, but will also provide an opportunity to highlight our contributions to the economic development of the region. In addition, the proposed OUEC is designed to accommodate the growth in size and diversity of the stakeholders being served by the SECS, and to enable and promote the growth in size and quality of our educational, scholarly, and community outreach activities.

The new building will house much-needed instructional and research facilities for four current departments and two new focus areas:

- Mechanical Engineering
- Computer Science and Engineering
- Electrical and Computer Engineering
- Industrial and Systems Engineering
- Biomedical Engineering (new focus area)
- Power and Energy Systems (new focus area)

In addition, the new building will support the existing research centers in other buildings:

- Fastening and Joining Research Institute (FAJRI)
- Cyber Physical Systems Research Center
- Center for Robotics, Unmanned and Intelligent Systems
- Clean Energy Research Center
- Automotive Tribology Center
- Stephan and Rita Sharf Computer Integrated Manufacturing Laboratory

Additional space is provided in the new building and in backfill renovations for 1,000 additional general purpose classroom seats, in a range of classroom sizes from 30 to 200 seats.

The on-campus functions of the School of Engineering and Computer Science are currently dispersed over five buildings and nine floors in Dodge Hall of Engineering, Hannah Hall of Science, Science and Engineering Building, Shotwell-Gustafson Pavilion, and the Police and Support Services Building. These SECS functions will be consolidated into a more collaborative environment in the new OUEC building plus parts of two floors of Dodge Hall of Engineering and one floor of the Science and Engineering Building. The new OUEC building will be located in close proximity to the remaining existing SECS functions in Dodge Hall and the Science and Engineering Building, and to collaborating entities in the College of Arts and Sciences and the School of Business Administration.

The design and function of the new Oakland University Engineering Center will follow today's state of the art standards for educational systems, which concentrates on the concept of living and learning communities and the centrality of student-related functions. Goals that will be achieved through the introduction of the new building include:

- Increased emphasis on hands-on learning
- Increased emphasis on informal and peer learning
- Enabling student organizations as a learning channel
- Enhancement of project-based laboratories
- Increased student involvement in original research
- Additional high-tech, appropriately equipped and designed learning spaces
- More flexibility to allow evolution and change in technologies, programs and pedagogies

The new Engineering Center will allow the incorporation of new technologies that are impossible or cost-prohibitive to retrofit within the existing buildings. These technologies may require high-bay space, low vibration space and/or clean room space, all of which will be provided in the new building. The new building will have an extensive and flexible infrastructure of building mechanical and electrical systems that will enhance the efficiency and functionality of existing programs as well as provide flexibility for program growth and change over time.

SECS' increasing emphasis on hands-on and collaborative learning will enhance the preparation of engineering students for entry into the contemporary workforce. Students who are trained in the new Engineering Center will transition easily into the demanding and collaborative work environments in the high-technology industries of Michigan. These students will learn the collaborative, adaptive and entrepreneurial skills required in today's fast-moving economy, and are expected to emerge as leaders in 21st century innovation.

The added space and enhanced capabilities provided to SECS in the new Oakland University Engineering Center will enable increased recruitment and retention of students, and support the University's goal of significantly increased enrollments by 2020.

The new OUEC building is placed immediately east of the existing Dodge Hall to ease the movement between the two buildings. Oriented north/south the plan creates an L-shaped footprint to reach north to the existing campus green and access toward the Oakland Center. This design orientation also creates a semi-enclosed outdoor court that may be utilized for robotic and vehicle tests, ceremonies and students social activities.

Sustainable features will be incorporated into the overall design to facilitate a USGBC LEED rating and

provide for an energy efficient campus building.

B. Other Alternatives Considered

The School of Engineering and Computer Science will be the sole occupant of the proposed new facility. Currently, SECS programs are mainly housed in the Science and Engineering complex but they are scattered among five buildings, with no more than 20% occupancy in any of the five buildings. Relative to national norms, the SECS has only half of the needed teaching and research lab space for the types of programs being delivered. There is no other space on campus that could be cost effectively renovated to meet the needs of all of the SECS programs. Moreover, Oakland University has the lowest ratio of space to students of all the public universities in the state of Michigan. Growth in space at OU has not nearly kept pace with enrollment growth.

Oakland University has recently entered into a partnership with Macomb Community College (MCC) and Oakland Community College (OCC) to offer engineering degrees using a combination of facilities at MCC, OCC and Oakland University campuses. The OU-MCC program is not a substitute for continued growth at the Oakland campus. Without the proposed new OUEC facility, it will not be possible for Oakland to continue its growth and will not be able to meet the increasing demand for qualified engineering and computer science graduates who are so critical to the revival of Michigan's economy.

C. Programmatic Benefit to State of Taxpayers and Specific Clientele or Constituencies

The demand for qualified engineering and computer science graduates continues to exceed the current number of graduates. With its prime location adjacent to a number of health care and bio-medical-related, auto-related and defense-related industry headquarters, Oakland is poised to help meet that demand. The proposed OUEC will enhance the use of existing facilities and provide additional facilities for instructional programs and industry-related initiatives. Oakland provides a number of services directly to industry, primarily in the form of applied research projects, tailored education and training initiatives, and state-supported grants.

D. Funding Resource

If this project receives State funding approval, plans are in place to immediately begin soliciting private support as part of the University's comprehensive campaign for the required matching funds. If necessary, bonds will be issued to supplement the private support.

**Oakland University
Engineering Center**

Estimated Project Cost

| | ASF | Efficiency | GSF | \$/GSF | Cost | Totals |
|--|-------------------------|------------|---------|-------------|------------|----------------------|
| 1 Building: | | | | | | |
| a. Classrooms | 10,000 | 61% | 16,393 | 290 \$ | 4,754,098 | |
| b. Offices | 21,202 | 61% | 34,757 | 280 \$ | 9,732,066 | |
| c. Informal Learning Space | 7,750 | 61% | 12,705 | 280 \$ | 3,557,377 | |
| d. Student Org. Space | 1,200 | 61% | 1,967 | 290 \$ | 570,492 | |
| e. Instructional Labs | 30,800 | 61% | 50,492 | 485 \$ | 24,488,525 | |
| f. Research Labs | 6,000 | 61% | 9,836 | 525 \$ | 5,163,934 | |
| g. Building Support | 1,389 | 61% | 2,277 | 213 \$ | 483,923 | |
| Total new construction | 78,341 | | 128,428 | | | \$ 48,750,415 |
| a. Renovation | 15,000 | | 15,000 | 100 \$ | 1,500,000 | \$ 1,500,000 |
| Total buildings | 93,341 | | 143,428 | | | \$ 50,250,415 |
| | Total Building Cost | | | | | |
| 2 Site Work: | | | | \$/Bldg. SF | | |
| a. OUEC Utilities to site | | | | \$ | 1,234,073 | |
| b. OUEC Landscaping | | | | \$ | 1,825,824 | |
| | Total Site Work Cost | | | | | \$ 3,059,897 |
| TOTAL CONSTRUCTION COST (Items 1 thru 2) | | | | | | \$ 53,310,312 |
| 3 Movable (Group 2) Equipment | | | | | | |
| a. OUEC Movable Equipment | | | | \$ | 4,842,880 | |
| c. OUEC Furnishings | | | | \$ | 3,585,700 | |
| | Total Movable Equipment | | | | | \$ 8,428,580 |
| 4 Professional Fees, surveys, site investigations, State supervision | | | | | | |
| a. A/E Fee | | | | \$ | 4,424,825 | |
| b. State Management Fee | | | | \$ | 500,000 | |
| c. Construction Management Fees | | | | \$ | 1,600,000 | |
| d. Other Fees | | | | \$ | 350,000 | |
| | Total Fees and Charges | | | | | \$ 6,874,825 |
| 5 Other (Moving Costs, Construction Contingency) | | | | | | \$ 5,938,022 |
| TOTAL PROJECT COST | | | | | | \$ 74,551,739 |

Project Data Sheet

| | | |
|---------------------------|--|----------------------|
| 1. | The structure (General, mechanical, electrical, fixed equipment, and contingencies) | \$ 50,250,415 |
| 2. | Services from five feet outside of the structure (Sewers, water supply, etc) | \$ 3,059,897 |
| 3. | Furnishings (Furniture, movable equipment, etc., not considered a part of the structure nor requiring fixed mechanical and/or electrical services) | \$ 8,428,580 |
| 4. | Professional fees, surveys, site investigations, state supervision, etc | \$ 6,874,825 |
| 5. | Other | \$ 5,938,022 |
| TOTAL PROJECT COST | | \$ 74,551,739 |

Engineering Center (Only)

| | | | |
|-------------------------|-----------|-----------------------|--------|
| Total net square feet | 78,431 | | |
| Total gross square feet | 128,428 | *Cost / gross sq. ft. | \$ 580 |
| Total gross cubic feet | 1,797,992 | *Cost / gross cu. Ft. | \$ 41 |

Oakland University
Engineering Center

Program Summary

| | | | each | rooms | subtotal | total |
|-----------------------------|------|--------------------------------|------|-------|--------------|--------------|
| SECS Office Space | | | | | | 5,000 |
| Administrative Suite | | | | | | |
| | | | | | 2,302 | 2,700 |
| Office | SECS | Dean Office | 220 | 1 | 220 | |
| Office | SECS | Associate Dean Office | 180 | 1 | 180 | |
| Office | SECS | Graduate Coordinator Office | 180 | 1 | 180 | |
| Office | SECS | Executive Secretary Office | 140 | 1 | 140 | |
| Office | SECS | Budget Manager Office | 140 | 1 | 140 | |
| Office | SECS | Development Office | 140 | 1 | 140 | |
| Office | SECS | Secretarial Workstation | 70 | 3 | 210 | |
| Office | SECS | Work Study Student Workstation | 35 | 2 | 70 | |
| Office Support | SECS | Reception | 360 | 1 | 360 | |
| Office Support | SECS | Copy/Print/Fax/Workroom | 180 | 1 | 180 | |
| Office Support | SECS | Office Storage | 150 | 1 | 150 | |
| Office Support | SECS | Coat Closet | 12 | 1 | 12 | |
| Meeting | SECS | Dean's Conference Room | 320 | 1 | 320 | |
| Advising | | | | | | |
| | | | | | 1,287 | 1,500 |
| Office | SECS | Program Coordinator Office | 150 | 1 | 150 | |
| Office | SECS | Academic Advisor Office | 150 | 2 | 300 | |
| Office | SECS | Secretarial Workstation | 70 | 1 | 70 | |
| Office | SECS | Student Workstation | 35 | 2 | 70 | |
| Office Support | SECS | Reception/Waiting | 325 | 1 | 325 | |
| Office Support | SECS | Computer Kiosk | 20 | 2 | 40 | |
| Office Support | SECS | Career Area / Resource Library | 70 | 1 | 70 | |
| Office Support | SECS | Copy/Print/Fax/Workroom | 100 | 1 | 100 | |
| Office Support | SECS | Secure File Storage | 150 | 1 | 150 | |
| Office Support | SECS | Coat Closet | 12 | 1 | 12 | |
| Technologists | | | | | | |
| Office | SECS | Lab Manager Office | - | 2 | - | |
| Office | SECS | Network Administrator Office | - | 2 | - | |
| Office | SECS | Project Engineer Office | - | 1 | - | |
| Other | | | | | | |
| Meeting | SECS | Faculty Mail, Lounge | | 1 | | 800 |

| | | | | | | |
|---|------|-------------------------------------|-------|------------------|--------------|---------------|
| Meeting | OU | Seminar / Conference Room | 300 | | 300 | |
| | | | 500 | 1 | 500 | |
| Departmental Office Space | | | | | | 16,202 |
| Departmental Office Cluster (four total) | | | | | | |
| Office | | Chair | | 4 | 2,100 | 2,400 |
| | | | 180 | | 720 | |
| Office | | Secretarial Workstation | | 4 | | |
| | | | 70 | | 280 | |
| Office | | Student Workstation | | 4 | | |
| | | | 35 | | 140 | |
| Office Support | | Reception | | 4 | | |
| | | | 120 | | 480 | |
| Office Support | | Office Storage | | 4 | | |
| | | | 120 | | 480 | |
| Departmental - Shared | | | | | | |
| Office Support | | Copy/Print/Fax/Workroom | | 2 | | 920 |
| | | | 140 | | 280 | |
| Meeting | | Conference Room | | 2 | | |
| | | | 320 | | 640 | |
| Faculty and Student Offices | | | | | | |
| Office | | Faculty Office | | 60 | | 12,882 |
| | | | 140 | | 8,400 | |
| Office | | Visiting or Research Faculty Office | | 10 | | |
| | | | 140 | | 1,400 | |
| Office | | Adjunct Office | | 6 | | |
| | | | 47 | | 282 | |
| Office | | PhD Student Office | | 60 | | |
| | | | 47 | | 2,800 | |
| Office | | GA/RA/TA Office | | 0 | | |
| | | | 47 | | - | |
| Informal Learning Space | | | | | | 7,750 |
| Study | SECS | Informal Learning Space | | 1 | | |
| | | | 5,600 | | 5,600 | |
| Study | SECS | Quiet Lounge/Study Space | | 0 | | - |
| | | | 2,500 | | - | |
| Study | SECS | Pre/Post Classroom Discussion | | 0 | | - |
| | | | 1,000 | | - | |
| Study | SECS | Study Nook | | 0 | | - |
| | | | 100 | | - | |
| | | Noisy Lounge | | | | |
| | | Quiet Lounge (Tables) | | | | |
| | | Study Alcoves | | | | |
| Study | SECS | Project/Group Study Room | | 10 | | |
| | | | 150 | | 1,500 | |
| Study Support | SECS | Vending | | 1 | | |
| | | | 100 | | 100 | |
| Study Support | SECS | Café - Kitchen and Servery | | 1 | | |
| | | | 250 | | 250 | |
| Study Support | SECS | Project Display Space | | 1 | | |
| | | | 300 | | 300 | |
| Student Organization Space | | | | | | 1,200 |
| | | | | Total NSF | 1,045 | 1,200 |
| Meeting | SECS | Workroom | | 1 | | |
| | | | 240 | | 240 | |
| Meeting | SECS | Shared Meeting / Workroom | | 1 | | |
| | | | 220 | | 220 | |
| Office | SECS | Desk Space | | 5 | | |

| | | | | | | |
|---------------------------|------|--------------------------------------|-------|-----------|-------|---------------|
| Office Support | SECS | Storage Closet | 35 | 16 | 175 | |
| Office Support | SECS | Display Space | 25 | 1 | 400 | |
| | | | 10 | | 10 | |
| Classrooms | | | | | | 10,000 |
| Classroom | OU | Lecture Hall - 200 Seats | | 1 | | |
| | | | 4,300 | | 4,300 | |
| Classroom | OU | Classroom - 100 Seats | | 1 | | |
| | | | 2,100 | | 2,100 | |
| Classroom | OU | Classroom - 50 Seats | | 3 | | |
| | | | 1,200 | | 3,600 | |
| Class Laboratories | | | | 26 | | 19,800 |
| Class Lab | CSE | Networking | | 0 | - | - |
| | | | 600 | | | |
| Class Lab | CSE | Unix | | 0 | - | - |
| | | | 600 | | | |
| Class Lab | CSE | Lego | | 0 | - | - |
| | | | 900 | | | |
| Class Lab | CSE | Computing Lab | | 0 | - | - |
| | | | 600 | | | |
| Class Lab | CSE | Large Computing Lab | | 0 | - | - |
| | | | 900 | | | |
| Class Lab Support | CSE | Storage and Support | | 0 | - | - |
| | | | 300 | | | |
| | | SECS | | | | |
| Class Lab | | Bioengineering/Ergonomics/Motion | | 1 | | |
| | | | 1,200 | | 1,200 | |
| Class Lab | | Energy Lab | | 1 | | |
| | | | 1,200 | | 1,200 | |
| Class Lab Support | | Bioengineering Prep/Support | | 1 | | |
| | | | 300 | | 300 | |
| Class Lab Support | | Energy Prep/Support/Storage | | 1 | | |
| | | | 300 | | 300 | |
| | | ISE | | | | |
| Class Lab | | Product Lifecycle Management Lab | | 1 | | |
| | | | 600 | | 600 | |
| Class Lab | | SHARF Computer Integrated Manuf. Lab | | 1 | | |
| | | | 900 | | 900 | |
| | | CSE | | | | |
| Class Lab | | Computing Lab - 40 stations | | 1 | | |
| | | | 1,050 | | 1,050 | |
| Class Lab | | Computing Lab - 24 stations | | 2 | | |
| | | | 600 | | 1,200 | |
| Class Lab | | Networking and Security Lab | | 1 | | |
| | | | 1,050 | | 1,050 | |
| Class Lab | | HCI and Visual Computing Lab | | 1 | | |
| | | | 900 | | 900 | |
| Class Lab | | LEGO Lab | | 1 | | |
| | | | 900 | | 900 | |
| | | ME | | | | |
| Class Lab | | CAD/CATIA Lab | | 1 | | |
| | | | 900 | | 900 | |
| Class Lab | | Thermo and Fluids Lab | | 2 | | |
| | | | 900 | | 1,800 | |
| Class Lab | | Thermo and Fluids Support/Storage | | 1 | | |
| | | | 300 | | 300 | |
| Class Lab | | Materials Lab | | 1 | | |
| | | | 900 | | 900 | |
| Class Lab | | Statics and Dynamics Lab | | 1 | | |
| | | | 600 | | 600 | |

| | | | ECE | | |
|----------------------------------|------|---|------------|---|--------------|
| Class Lab | | Computer Engineering Lab - 32 stations | 900 | 1 | 900 |
| Class Lab | | Computer Engineering Lab - 24 stations | 600 | 1 | 600 |
| Class Lab | | Electrical Circuits Lab | 900 | 1 | 900 |
| Class Lab | | Electronics Lab | 600 | 1 | 600 |
| Class Lab | | Communications Lab | 600 | 1 | 600 |
| Class Lab | | Power and Machines Lab | 900 | 1 | 900 |
| Class Lab | | Controls Lab | 600 | 1 | 600 |
| Class Lab | | Computational Lab - 24 Stations | 600 | 1 | 600 |
| Class Lab | ECE | Controls and Robotics | 1,200 | 0 | - |
| Class Lab | ECE | Circuits / Advanced Electronics / Digital | 1,200 | 0 | - |
| Class Lab | ECE | MEMS / Advanced Lab | 1,200 | 0 | - |
| Class Lab | ECE | Optical / Wireless / Signal Processing | 1,200 | 0 | - |
| Class Lab Support | ECE | Storage and Support | 300 | 0 | - |
| Class Lab | ISE | CIM Lab | 900 | 0 | - |
| Class Lab Support | ISE | Storage and Support | 300 | 0 | - |
| Class Lab | ME | Thermodynamics and Fluids | 1,200 | 0 | - |
| Class Lab | ME | Statics and Dynamics | 1,200 | 0 | - |
| Class Lab | ME | Material Properties | 1,200 | 0 | - |
| Class Lab Support | ME | Storage and Support | 300 | 0 | - |
| Class Lab | CECS | Bioengineering | 1,200 | 0 | - |
| Class Lab Support | CECS | Storage and Support | 300 | 0 | - |
| Project Laboratories | | | | | 8,000 |
| Project Lab | SECS | Senior Project Lab | 3,000 | 1 | 3,000 |
| Project Lab | SECS | Sophomore Design Lab | 1,200 | 1 | 1,200 |
| Project Lab | SECS | Mechatronics Lab | 1,200 | 1 | 1,200 |
| Project Lab | SECS | Project Lab - Workroom | 600 | 1 | 600 |
| Project Lab | SECS | Mechatronics | 900 | 0 | - |
| Project Lab | SECS | Project Labs Storage & Support | 600 | 1 | 600 |
| Formula SAE Project Space | | | | | |
| Project Lab | SECS | Formula SAE Automotive Project Lab | 1,200 | 1 | 1,200 |
| Project Lab | SECS | Formula SAE Automotive Shop | 400 | 0 | - |
| Project Lab | SECS | Formula SAE Automotive Storage | 200 | 1 | 200 |

| Class and Project Laboratory Support | | | | | | 3,000 |
|---|------|---|-------|---|-------|--------------|
| Lab Support | SECS | Machine Shop | | 1 | | |
| | | | 2,200 | | 2,200 | |
| Lab Support | SECS | Wood Shop | | 0 | - | |
| | | | 400 | | | |
| Lab Support | SECS | Shop Materials Storage | | 1 | | |
| | | | 400 | | 300 | |
| Class Lab Support | | Lab Techs Office/Shop | | 1 | | |
| | | | 300 | | 300 | |
| Lab Support | SECS | Electronics Shop | | 1 | | |
| | | | 200 | | 200 | |
| Office | SECS | Network Administrator Office | | 2 | - | |
| | | | - | | - | |
| Lab Support | SECS | Server Room | | 0 | - | |
| | | | 200 | | | |
| Research Laboratories | | | | | | 6,000 |
| | | Core Laboratories | | | | 3,300 |
| Research Lab | | Tribology Research Lab | 900 | 0 | - | |
| Research Lab | ECE | MEMS Research Lab | 600 | 0 | - | |
| | | Micro/Nano Clean Room & Characterization | | | | |
| Research Lab | | Clean Room | 900 | 1 | | 900 |
| | | | | | | |
| Research Lab Support | | Clean Room Equipment | 300 | 1 | | 300 |
| | | | | | | |
| Research Lab | | Airlock / Gowning | 100 | 1 | | 100 |
| | | | | | | |
| Research Lab | | Characterization | 500 | 1 | | 500 |
| | | | | | | |
| Research Lab | | Materials - Metrology Lab | 900 | 0 | - | |
| Research Lab | | Materials - Testing Lab | 900 | 0 | - | |
| | | Microscopy Suite | | | | |
| Research Lab | | SEM | 150 | 1 | | 150 |
| | | | | | | |
| Research Lab | | XPS | 150 | 1 | | 150 |
| | | | | | | |
| Research Lab | | Future Modality - TEM | 150 | 1 | | 150 |
| | | | | | | |
| Research Lab | | Small Microscopy Workstation | 75 | 4 | | 300 |
| | | | | | | |
| Research Lab | | Sample Prep Area | 500 | 1 | | 500 |
| | | | | | | |
| Research Lab Support | | Pumps and Chillers | 250 | 1 | | 250 |
| | | | | | | |
| | | Research Laboratories | | | | 2,700 |
| Research Lab | | Tribology Lab | 900 | 1 | | 900 |
| | | | | | | |
| Research Lab | | ARES Lab | 600 | 1 | | 600 |
| | | | | | | |
| Research Lab | | Active Suspension System Lab | 600 | 1 | | 600 |
| | | | | | | |
| Research Lab | | Microelectronics Systems Design Lab | 600 | 1 | | 600 |
| | | | | | | |
| Building Support | | | | | | 1,389 |
| | | Building Entrance | | | | - |
| Circulation | | Vestibule | 150 | 1 | | 150 |
| | | | | | | |
| Circulation | | Lobby | 300 | 1 | | 300 |
| | | | | | | |

| | | | | | |
|-------------|--------------------------------------|-----|----|-----|--------------|
| | Materials Handling | | | | 1,094 |
| Circulation | Loading Dock | 400 | 0 | - | |
| Circulation | Receiving | 320 | 0 | - | |
| | Storage Cages at Receiving | 320 | 1 | 320 | |
| | Flammable Storage | 100 | 1 | 100 | |
| | Hazardous Waste Storage | 100 | 1 | 100 | |
| | Cylinders | 50 | 3 | 150 | |
| | Compactor | 144 | 1 | 144 | |
| | Recycling | 280 | 1 | 280 | |
| | Custodial | | | | |
| | Central Custodial Storage | 200 | 1 | 200 | |
| | Janitor Closet | 5 | 20 | 100 | |
| | Health and Safety | | | | 175 |
| | Personal Health Room | 150 | 1 | 150 | |
| | Emergency Response Closet | 25 | 1 | 25 | |
| | Maintenance | | | | 120 |
| | Maintenance Office | 120 | 1 | 120 | |
| | Storage | | | | - |
| | Departmental Storage (four required) | 500 | 0 | - | |

| | | | | | |
|---------------------------------|--|--|--|--|---------------|
| Total Net Square Footage | | | | | 78,341 |
|---------------------------------|--|--|--|--|---------------|

| | | | | | |
|-----------------------------------|-----------------------------------|--|--|--|----------------|
| Total Gross Square Footage | 61% Net / Gross Efficiency | | | | 128,428 |
|-----------------------------------|-----------------------------------|--|--|--|----------------|