# OAKLAND UNIVERSITY

# Fiscal Year 2005
# 5-Year Capital Outlay Plan

## I. Mission Statement

The role and mission statement for the University was adopted by the Oakland University Board of Trustees on July 21, 1982:

"As a state-supported institution of higher education, 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 (OU) is a comprehensive institution of higher education located north of Detroit in suburban Oakland County. Dedicated to providing students with the skills to succeed in a complex and rapidly changing workplace, OU continues to add market-driven academic programs geared to real-world needs. Students have unlimited options for off-campus work experience at Fortune 500 companies in Oakland County, which often lead to fulltime jobs after graduation.

Instructional Technology enhancements in the classrooms are becoming a standard expectation of our faculty and students. Eighty-five (includes the ODH additions) of our classrooms are equipped with enhanced instructional technology features at a Level II or higher configuration.

The five functional categories of OU classrooms are defined within one of the following Levels:

Level I - Basic Classrooms contain: Chalkboard and/or whiteboard, Projection screen, Overhead projector, OU network connectivity (Data/Voice/Video).

Level II - Technology Classrooms (Without Multimedia Podium) contain: Everything in Basic Classroom package plus: VHS videotape player, Video/Data projector & TV's, Fixed AV equipment lock box, and a campus telephone. Users have the ability to display computer and video output onto the classrooms front projection screen and/or TVs.

Level III - Enhanced Technology Classrooms (With Multimedia Podium) contain: Everything in classroom Levels I & II plus: Multimedia presentation podium, PC computer, DVD player, a document camera and an electronic white board.

Level IV - Two-way Interactive Television or Distance Learning Classrooms (ITV or DL) contain: Everything within a Level III classroom plus: Multiple TV cameras, microphones, codec (video/audio compressor), I-mux (video call management), a user friendly computer touch-screen control system that provides the user with full access and control of all classroom presentation devices from the desktop, and a fax/copier.

Level V - Computer Classrooms: A computer classroom is a teaching environment where there is a computer workstation for each student participating in the class in addition to the instructor's control/presentation computer workstation. The instructor's control computer workstation may be connected to a data projection system. The instructor's workstation may also have special control capabilities that manage the functionality of

all classroom computers and image displays.

OU continues to offer courses via distance education. The two modes of delivery include live interactive video and asynchronous web-based learning opportunities.

The MiCTA/Sprint T1 network continues to provide the transmission vehicle for the majority of OU's live two-way compressed video course activity. Currently, credit courses are being delivered to Macomb University Center and the Jackson Intermediate School District. Delivery sites change each semester with program needs. There are seven interactive video classrooms on the OU campus that are available to provide this mode of instructional delivery.

OU also supports a web-based distance learning solution utilizing Web CT as the enterprise course development tool. Web CT 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.

During the Fall 2003 semester, OU will be offering 37 course sections that are fully web-based and approximately 180 course sections that will be providing some level of web supplemented activity.

## A Growing University
Student enrollment projections through 2010 include the following:
- growing to 20,000 students for fall 2010
- a 10-percent increase in full-time undergraduate students
- increase FTIAC enrollment of minority students
- a significant increase in graduate students, responding to new program development, greater outreach activities and advanced technology-assisted education delivery

OU has continued to keep pace with growth by providing new and advanced academic, research and support facilities, such as:
- the Science and Engineering Building
- the Recreation and Athletics Center
- a renovated Oakland Center
- a renovated Hannah Hall for the School of Health Sciences
- the Elliott Hall of Business and Information Technology
- the School of Education and Human Services Building
- the renovation and expansion of the Oakland Center
- the renovation of O'Dowd 202 to provide additional classrooms

OU has added 29 new degree programs over the past four years to strengthen educational offerings.

A Campus Master Plan was finalized in 2001. It addresses expected growth and includes:

- recommendations for additional parking
- infrastructure improvements
- the identification of potential building sites for a performing arts facility, a research and development park, a new humanities facility, expansion of the School of Engineering and Computer Science, and possible future phases of student apartments

## Integrating Liberal and Professional Studies

By 2010, OU will have celebrated its 50$^{th}$ anniversary as an institution of higher education built on, and committed to, the liberal arts. OU also is driven to provide the best in professional studies and to prepare graduates to take superior critical thinking and communication skills, as well as expertise in their chosen field, into society and the workplace of the future.

## Technological Enhancements

OU is dedicated to enhancing education through the use of contemporary and emerging technologies. Since 1995, OU has committed a large share of its resources to technological enhancements, including:

- Implementation of a complete administrative software suite.

- On-line registration.

- Extended the campus network to all classroom buildings and residence halls.

- Wireless Internet connections in residence halls, student apartments, east campus, and in some academic buildings including the renovated Oakland Center.

- Elliott Hall a $17.5-million, 74,000-square foot, technology-rich facility.

- New School of Education & Human Services building with 24 enhanced technology classrooms and an all digital video recording, playback and archive system to supplement program activity in the School's Counseling Center.

- Developed a significant interactive television and video conferencing capability to supplement instruction and administrative program activity.

- Implemented on-line web-based course offerings to OU's students utilizing WebCT.

## Expanding Graduate Program

An Enrollment Planning Committee has projected a graduate student population representing 20 percent of the total enrollment by 2010. Seventy-five percent of the graduate student population will be part-time students and full-time working adults enrolled in programs that will prepare them for leadership roles in their professions – programs that, by 2010, will have achieved regional and national acclaim. Many of

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those students will commute via the Internet.

## Applied Research
OU has a number of research centers and institutes that have earned substantial recognition.  OU's Eye Research Institute and Center for Biomedical Research have been identified as two distinctive programs that bring national recognition to OU and serve as regional resources.  OU also is fortunate to have noted researchers in the areas of gravitational physics, electromagnetic compatibility, cardiovascular disease and cancer, among many others.  By 2010, applied research at OU will include major contributions from a research and development park.  A business incubator will link great minds from OU and the business world to develop ideas that will affect the future of business and Michigan's economy.

## Cultural and Performing Arts
In the next decade, OU's dominance in the arts will move beyond local boundaries to secure a place of prominence in the region.  Already, the Meadow Brooks have earned a reputation for taking artistic risks, developing gifted artists, nurturing arts partnerships and achieving new heights of quality and professionalism.

Meadow Brook Hall, a world-class historic house-museum, attracts thousands of visitors to campus each year.  By 2010, interpretation of its outstanding collections and new educational programs tied to the College of Arts and Sciences will set the Hall ahead of its peers.

Meadow Brook Art Gallery, now housed in the Department of Art and Art History, continues to garner critical acclaim for the quality and scope of its exhibitions.

Meadow Brook Theatre, Michigan's largest professional theatre company, has inspired audiences and has won awards for 35 years.  Both Meadow Brook Art Gallery and Meadow Brook Theatre are invaluable resources to the community and provide a collaboration with the academic enterprise.

## Community Outreach
For the first time in OU's history, an OU athlete has won an Olympic gold-medal playing with the Norwegian soccer team.  Needless to say, achievements like this provide invaluable community outreach and generate tremendous interest in OU, which will positively impact enrollment and support by 2010.

An OU student was invited to the State of the Union Address by President Bush and participated in a panel discussion on volunteerism held the following day.

Another record-breaking crowd descended on OU's campus for the Metro Detroit American Heart Walk.  More than 20,000 participants made it the second largest Heart Walk in the country.

OU's School of Nursing recognized eight outstanding Michigan nurses at the 15th annual Nightingale Awards, an event that helps raise funds for nursing scholarships.

OU and the Pontiac Oakland Symphony Orchestra joined forces to provide high-level orchestral performances to the Oakland County community.

## Campus Setting and Services

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.

In 2002, OU opened a new Student Financial Services Center in North Foundation Hall, a one-stop shop for student administrative needs. Other recent student service improvements include:

- evening tutorial services in the residence halls
- creation of a Graduate Studies and Lifelong Learning Center
- establishment of assistive technology lab for use by hearing and visually impaired students
- creation of an advising center for students who are undecided about majors
- completion of 30,000 sq. ft. student center expansion
- the Trustee Academic Success Scholarship Program
- completion of parking structure to alleviate demand
- new student apartments to bring on-campus housing capacity to 2,000, in response to the demand

OU's vision for 2010 is an outstanding University, attracting the best and most motivatedstudents, educating them to be the leaders of tomorrow.

**OAKLAND UNIVERSITY**
**UNDERGRADUATE DEGREE PROGRAMS (115)**

**College of Arts and Sciences (85)**

**Bachelor of Arts - CASBA (51)**

| | |
|---|---|
| 1045 | Independent Major |
| 1055 | Art History |
| 1105 | Biology |
| 1070 | Studio Art |
| 1230 | Chemistry |
| 1405 | English |
| 1410 | English w/Conc in Linguistics |
| 1505 | History |
| 1605 | African African-Amer Studies |
| 1610 | East Asian Studies - China |
| 1615 | East Asian Studies - Japan |
| 1620 | South Asian Studies |
| 1625 | Latin American Studies |
| 1630 | Slavic Studies |
| 1705 | Linguistics |
| 1710 | Linguistics - Modified |
| 1805 | Mathematics |

| | |
|---|---|
| 1980 | French Language and Literature |
| 1985 | French - Modified |
| 2010 | German Language and Literature |
| 2015 | German w/Conc German Studies |
| 2020 | German - Modified |
| 2060 | Latin American Lang and Civ |
| 2070 | Russian Language and Civ |
| 2075 | Russian - Modified |
| 2100 | Spanish Language and Lit |
| 2110 | Spanish - Modified |
| 2130 | Two Modern Languages |
| 2205 | Music |
| 2210 | Performing Arts - Dance |
| 2211 | Performing Arts - Mus Theatre |
| 2212 | Performing Arts - Theatre Perf |
| 2214 | Performing Arts - Theatre Prod |
| 2375 | Philosophy |
| 2380 | Philosophy - Modified |
| 2385 | Philosophy w/Conc Linguistics |
| 2405 | Physics |
| 2515 | Political Science |
| 2605 | Psychology |
| 2615 | Psychology w/Conc in Ling |
| 2705 | Communication |
| 2715 | Communication w/Conc in Ling |
| 2735 | Journalism |
| 2805 | Sociology/Anthropology |
| 2810 | Anthropology |
| 2815 | Anthro w/Conc in Linguistics |
| 2820 | Sociology |
| 2825 | Soc w/Conc in Linguistics |
| 2830 | Soc w/Spec in Criminal Justice |
| 2862 | Women's Studies |

## Bachelor of Music – CASBMUS (6)

| | |
|---|---|
| 2240 | Music – Vocal Performance |
| 2245 | Music – Piano Performance |
| 2250 | Music – Composition |
| 2255 | Music – Sacred Music (discontinued) |
| | Music – Organ Performance |
| 2275 | Music Education K-12 |
| 2300 | Music |

## Bachelor of Science – CASBS (16)

| | |
|---|---|
| 1105 | Biology |
| 1125 | Biology w/Spec in Anatomy |
| 1130 | Biology w/Spec in Microbiology |
| | Biology w/Spec in Cell-Molecular Biology |
| | Modified Major in Biology(conc. In Applied Stats) |
| 1225 | Biochemistry |
| 1230 | Chemistry |
| 1250 | Env Health Spec Env/Res Mgt |
| 1255 | Env Hlth Spec Occ Hlth Safety |
| 1260 | Env Hlth Spec Toxic Subs Cntrl |
| 1265 | Environmental Health |

| | |
|---|---|
| 1265 | Environmental Health |
| 1805 | Mathematics |
| 1835 | Applied Statistics |
| 2405 | Physics |
| 2420 | Medical Physics |
| 2530 | Public Admin and Public Policy |

## Secondary Education Programs (12)

| | |
|---|---|
| 1140 | Biology w/Secondary Cert |
| 1240 | Chemistry w/Secondary Cert |
| 1430 | English w/Secondary Cert |
| 1515 | History w/Secondary Cert |
| 1825 | Mathematics w/Secondary Cert |
| 1990 | French w/Secondary Cert |
| 2025 | German w/Secondary Cert |
| 2080 | Russian w/Secondary Cert |
| 2120 | Spanish w/Secondary Cert |
| 2430 | Physics w/Secondary Cert |
| 2520 | Political Science w/Sec Cert |
| 2822 | Sociology w/Secondary Cert |

## School of Business Administration (8)

### Bachelor of Science - SBABS (8)

| | |
|---|---|
| 3100 | Accounting |
| | Financial Information Systems |
| 3200 | Finance |
| 3300 | General Management |
| 3400 | Human Resource Management |
| 3500 | Management Information Systems |
| 3600 | Marketing |
| 3700 | Economics |

## School of Education and Human Services (2)

### Bachelor of Science (2)

| | |
|---|---|
| 4120 | Elementary Education |
| 4320 | Human Resource Development |

## School of Engineering and Computer Science (8)

### Bachelor of Science (1)

| | |
|---|---|
| 5020 | Computer Science |

### Bachelor of Science in Engineering (5)

| | |
|---|---|
| 5120 | Computer Engineering |
| 5140 | Electrical Engineering |
| 5160 | Mechanical Engineering |
| 5161 | Mechanical Egr w/Manuf Option |
| 5180 | Systems Engineering |

**Bachelor of Science Offered Jointly with College of Arts and Sciences (2)**

| | |
|---|---|
| 5040 | Engineering Chemistry |
| 5060 | Engineering Physics |

## School of Health Sciences (9)

**Bachelor of Science (9)**

| | |
|---|---|
| 6020 | Health Sciences |
| 6040 | Industrial Health and Safety |
| 6050 | Wellness, Health Promotion |
| 6061 | Medical Laboratory Science |
| 6062 | MLS: Cytotechnology |
| 6063 | MLS: Histotechnology |
| 6064 | MLS: Medical Technology |
| 6065 | MLS: Nuclear Med Tech |
| 6066 | MLS: Radiation Therapy |

## School of Nursing (2)

**Bachelor of Science in Nursing (2)**

| | |
|---|---|
| 7020 | Nursing |
| 7040 | Nursing (Completion Sequence) |

## University Programs (1)

**Bachelor of General Studies (1)**

| | |
|---|---|
| 7510 | General Studies |

### College of Arts and Sciences (16)

### Masters of Arts (5)

| | |
|---|---|
| 1105 | Biology |
| 1405 | English |
| 1505 | History |
| 1705 | Linguistics |
| 1805 | Mathematics |

### Master of Music (1)

| | |
|---|---|
| 2205 | Music |

### Concentrations Within MM

| | |
|---|---|
| 2310 | Vocal Pedagogy |
| 2315 | Vocal Performance |
| 2320 | Piano Pedagogy |
| 2325 | Piano Performance |
| 2330 | Composition |
| 2335 | Conducting |

### Master of Public Administration (1)

| | |
|---|---|
| 2560 | Public Administration |

### Concentrations Within MPA

| | |
|---|---|
| 2565 | Public Personnel Admin |
| 2566 | Health Care Administration |
| 2567 | Nonprofit Org and Management |
| 2568 | Local Government Management |

### Master of Science (5)

| | |
|---|---|
| 1105 | Biology |
| 1230 | Chemistry |
| 1835 | Applied Statistics |
| 1860 | Industrial Applied Mathematics |
| 2405 | Physics |

### Doctor of Philosophy (3)

| | |
|---|---|
| 1350 | Biomed Sci: Env Chemistry |
| 2490 | Biomed Sci: Med Physics |
| 1900 | Applied Mathematics |

## Graduate Certificates (2)

| | |
|---|---|
| 1720 | ESL |
| 1880 | Statistical Methods |

## Teacher Certification (1)

| | |
|---|---|
| 2305 | Music Education K-12 |

## School of Business Administration (3)

### Master of Accounting (1)

| | |
|---|---|
| 3100 | Accounting |

### Specializations Within MACC

| | |
|---|---|
| 3110 | Public Accounting |
| 3120 | Managerial Accounting |
| 3130 | Systems Accounting |

### Master of Business Administration (1)

| | |
|---|---|
| 3900 | Business Administration (includes EMBA) |

### Concentrations Within MBA

| | |
|---|---|
| 3100 | Accounting |
| 3200 | Finance |
| 3305 | International Business |
| 3400 | Human Resource Management |
| 3500 | Management Information Systems |
| 3600 | Marketing |
| 3705 | Business Economics |
| 3805 | Production/Operations Mgt |

### Master of Science (1)

| | |
|---|---|
| 3550 | Information Tech. Management |

### Post Master Certificates (10)

| | |
|---|---|
| 3100 | Accounting |
| 3200 | Finance |
| 3300 | General Management |
| 3305 | International Business |
| 3400 | Human Resource Management |
| 3500 | Management Information Systems |
| 3600 | Marketing |
| 3705 | Business Economics |
| 3805 | Production/Operations Mgt |
| 3850 | Entrepreneurship |

### Master of Arts (1)

| | |
|---|---|
| 4400 | Counseling |

### Specializations Within MA

| | |
|---|---|
| 4410 | Addiction Counseling |
| 4420 | Advanced Career Counseling |
| 4430 | Child/Adolescent Counseling |
| 4440 | Couple/Family Counseling |
| 4450 | Mental Health Counseling |

### Master of Arts in Teaching (2)

| | |
|---|---|
| 4500 | Reading and Language Arts |

### Specialization Within MAT

| | |
|---|---|
| 4565 | Reading Recovery |

### Master of Education (5)

| | |
|---|---|
| 4600 | Curric, Instruct, Leadership |
| 4610 | Educational Leadership |
| 4620 | Educational Studies |
| 4700 | Early Childhood Education |
| 4800 | Special Education |

### Master of Training and Development (1)

| | |
|---|---|
| 4900 | Training and Development |

### Education Specialist (1)

| | |
|---|---|
| 4650 | School Administration |

### Doctor of Philosophy (4)

| | |
|---|---|
| 4940 | Reading Education |
| 4950 | Educ: Counseling |
| 4951 | Educ: Curric, Instruct, Ldrshp |
| 4952 | Educ: Early Childhood |

### Graduate Certificates (3)

| | |
|---|---|
| 4550 | Microcomputer Applications |

| | |
|---|---|
| 4551 | Adv Microcomputer Applications |
| 4560 | Rdg, Lang Arts and Literature |

**Post Master Certificates (3)**

| | |
|---|---|
| 4561 | Advanced Rdg Lang Arts and Lit |
| 4750 | Early Mathematics Education |
| 4660 | Educational Administration |

**Teacher Certification (9)**

| | |
|---|---|
| 4490 | Counseling Prof Certification |
| 4590 | Reading Prof Certification |
| 4690 | CIL Professional Certification |
| 4790 | Early Childhood Prof Certification |
| 4795 | ZA Early Childhood Endorsement |
| 4890 | Special Ed Prof Certification |
| 4895 | AI Endorsement |
| 4896 | EI Endorsement |
| 4897 | LD Endorsement |

## School of Engineering and Computer Science (10)

**Master of Science (8)**

| | |
|---|---|
| 5160 | Mechanical Engineering |
| 5180 | Systems Engineering |
| 5520 | Computer Sci and Engineering |
| 5540 | Elec and Computer Engineering |
| 5560 | Engineering Management |
| 5580 | Information Systems Engineering |
| 5600 | Software Engineering |
| 5620 | Embedded Systems |

**Doctor of Philosophy (2)**

| | |
|---|---|
| 5160 | Mechanical Engineering |
| 5180 | Systems Engineering |

## School of Health Sciences (5)

**Master of Physical Therapy (1)**

| | |
|---|---|
| 6220 | Physical Therapy |

**Master of Science (2)**

| | |
|---|---|
| 6220 | Physical Therapy |
| 6240 | Exercise Science |

### Doctor of Physical Therapy (1)

| | |
|---|---|
| 6220 | Physical Therapy |

### Doctor of Science in Physical Therapy (1)

| | |
|---|---|
| 6220 | Physical Therapy |

## School of Nursing (5/3)

### Master of Science in Nursing (5)

| | |
|---|---|
| 7220 | Nursing Anesthesia |
| 7260 | Adult Health |
| 7270 | Adult Nurse Practioner |
| 7280 | Family Nurse Practioner |
| 7285 | Nursing Education |

### Post Master Certificates (3)

| | |
|---|---|
| 7220 | Anesthesia |
| 7280 | Family Nurse Practitioner |
| 7285 | Nursing Education |

## Oakland University
## Undergraduate Concentrations and Minors

### Undergraduate Concentrations  (13)

| | |
|---|---|
| 1435 | American Studies |
| 1835 | Applied Statistics |
| 2850 | Archeology |
| 2858 | Criminal Justice |
| 1270 | Environmental Studies |
| 1437 | Film Aesthetics and History |
| 1995 | French Studies |
| 6030 | Health Behavioral Sciences |
| 2854 | Michigan Studies |
| 1150 | Pre-Prof Studies Med/Dent/Opt |

| 2856 | Religious Studies |
|------|-------------------|
| 2860 | Social Work |
| 2855 | Urban Studies |
| 1435 | American Studies |
| 1835 | Applied Statistics |

## Undergraduate Minors (61)

| 3100 | Accounting |
|------|-----------|
| 3140 | Accounting Information Systems |
| 2740 | Advertising |
| 1605 | African African-Amer Studies |
| 2810 | Anthropology |
| 1810 | Applied Mathematics |
| 1835 | Applied Statistics |
| 3810 | Applied Technology in Business |
| 1055 | Art History |
| 1105 | Biology |
| 1230 | Chemistry |
| 2705 | Communication |
| 5020 | Computer Science |
| 5021 | Computing |
| 2290 | Dance |
| 1611 | East Asian Studies |
| 3700 | Economics |
| 1405 | English |
| 1265 | Environmental Health |
| 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 |
| 1505 | History |
| 4320 | Human Resource Development |
| 3400 | Human Resource Management |
| 6040 | Industrial Health and Safety |
| 3302 | International Management |
| 5300 | International Orientation for SECS |
| 2035 | Japanese Lang and Civ |
| 2735 | Journalism |
| 4350 | Labor and Employment Studies |
| 1625 | Latin American Studies |
| 1705 | Linguistics |
| 3500 | Management Information Systems |
| 3600 | Marketing |
| 1805 | Mathematics |
| 2205 | Music |
| 2375 | Philosophy |
| 2405 | Physics |
| 2515 | Political Science |
| 3805 | Production/Operations Mgt |
| 2605 | Psychology |
| 2742 | Public Relations |

| | |
|---|---|
| 3800 | Quantitative Methods |
| 2071 | Russian Language |
| 2072 | Russian Language and Lit |
| 1630 | Slavic Studies |
| 2820 | Sociology |
| 1620 | South Asian Studies |
| 2101 | Spanish Language |
| 2100 | Spanish Language and Lit |
| 1070 | Studio Art |
| 2294 | Theatre |
| 1147 | Three Science |
| 1146 | Two Science |
| 2862 | Women's Studies |
| 3100 | Accounting |

## III. Staffing and Enrollment
The following tables and graphs are provided:
Figure 1 - <u>Faculty and Staff Full Time Equivalent (FTE) by Program, FY 2001-02</u>
This chart shows the FTE for faculty, administration and clerical/service for the most recently completed fiscal year for both instructional disciplines and non-instructional program classes.

Figure 2 - <u>Student Credit Hours by Level and by Program, FY 2002-03</u>
This chart shows credit hours awarded for the most recently completed fiscal year by instructional discipline.

Figure 3 - <u>Degrees Awarded by Program, FY 2001-02</u>
This chart shows the degrees awarded by program for the most recently completed fiscal year.

Figure 4 - <u>Enrollment Trends from Fall 1998 to Fall 2003</u>
This graphic shows the growth over the last five years in undergraduate and graduate resident students and undergraduate and graduate non-resident students. During this period OU's enrollment increased from 14,289 to 16,576, an increase of 16%.

Figure 5 - <u>Undergraduate Projected Enrollment Growth Trends, Fall 2003 to Fall 2008 by College and School</u>
By 2008, OU expects major increases in undergraduate enrollments.

Figure 6 - <u>Graduate Projected Enrollment Growth Trends, Fall 2003 to Fall 2008 by College and School</u>
By 2008, OU expects major increases in graduate enrollments.

Figure 7 - <u>Gross Square Feet per Student in Michigan</u>
This chart shows that OU is third from the bottom in gross square footage per student of the 15 Michigan institutions.

### Future Staffing Needs
OU currently employs over 2,700 full and part-time faculty and staff and over 2,000 student employees. In addition, there are over 100 employees of contract service providers for food service, bookstore, and some custodial services. Faculty and staff will grow with increased enrollment, though not at the same rate.

### Average Class Size
Average class size for undergraduate instruction in fall 2001 was 33, up slightly from fall 1999. Graduate class size in fall 2001 was 17, up from fall 1999. 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.

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Figure 1

| | | FACULTY | ADMINISTRATION | CLERICAL AND SERVICE | |
|---|---|---|---|---|---|
| | **FACULTY AND STAFF FTE BY PROGRAM** | | | | |
| | FY 2001-02 | | | | |
| 5 | AREA STUDIES | 13.68 | 0.00 | 0.10 | |
| 26 | BIOLOGY | 24.68 | 3.00 | 3.97 | |
| 52 | BUSINESS | 59.51 | 5.26 | 12.47 | |
| 9 | COMMUNICATION | 30.70 | 0.00 | 0.00 | |
| 11 | COMPUTERS | 18.59 | 5.70 | 15.00 | |
| 13 | EDUCATION | 103.16 | 6.33 | 15.90 | |
| 14 | ENGINEERING | 31.81 | 1.30 | 8.35 | |
| 50 | FINE ARTS | 42.64 | 4.75 | 4.43 | |
| 16 | FOREIGN LANGUAGES | 36.46 | 0.00 | 3.00 | |
| 23 | ENGLISH & LETTERS | 61.28 | 0.00 | 7.91 | |
| 38 | PHILOSOPHY | 8.15 | 0.00 | 0.00 | |
| 24 | LIBERAL ARTS | 3.92 | 0.00 | 0.00 | |
| 27 | MATH | 29.99 | 0.75 | 5.98 | |
| 40 | PHYSICAL SCIENCES | 28.92 | 6.00 | 10.10 | |
| 42 | PSYCHOLOGY | 13.90 | 0.00 | 2.00 | |
| 44 | PUBLIC ADMINISTRATION | 20.44 | 1.71 | 4.80 | |
| 45 | SOCIAL SCIENCE & HISTORY | 57.79 | 1.74 | 6.77 | |
| 51.16 | NURSING | 21.62 | 3.67 | 4.10 | |
| 51.99 | OTHER HEALTH PROFESSIONS | 16.00 | 2.67 | 3.91 | |
| 31 | PARKS RECREATION & FITNESS | 4.70 | 0.00 | 0.00 | |
| 3 | CONSERVATION | 1.39 | 0.00 | 0.00 | |
| 51.22 | PUBLIC HEALTH | 1.99 | 0.00 | 0.00 | |
| | | | | | |
| | TOTAL INSTRUCTION | 631.32 | 42.88 | 108.79 | |
| | | | | | |
| | RESEARCH | | 7.09 | 4.45 | |
| | PUBLIC SUPPORT | | 2.50 | 3.04 | |
| | ACADEMIC SUPPORT | | 66.44 | 83.94 | |
| | STUDENT SERVICES | | 47.44 | 70.49 | |
| | INSTITUTIONAL SUPPORT | | 106.39 | 78.43 | |
| | PLANT OPERATION & MAINT | | 11.05 | 82.16 | |
| | AUXILIARY ENTERPRISES | | 20.00 | 7.00 | |
| | | | | | |
| | TOTAL FTEs | 631.32 | 303.79 | 438.30 | |

**Figure 2**

| | | LOWER | UPPER | MASTERS | DOCTORAL | |
|---|---|---|---|---|---|---|
| | **STUDENT CREDIT HOURS** | | | | | |
| | **FY 2002-03** | | | | | |
| 05 | AREA STUDIES | 15,172 | 997 | 0 | 0 | |
| 09 | COMMUNICATION, JOURNALISM | 8,918 | 10,319 | 8 | 0 | |
| 11 | COMPUTER & INFORMATION SCIENCES | 7,178 | 2,031 | 2,864 | 8 | |
| 13 | EDUCATION | 5,267 | 23,392 | 23,277 | 2,195 | |
| 14 | ENGINEERING | 2,692 | 6,345 | 4,452 | 412 | |
| 16 | FOREIGN LANGUAGES | 15,530 | 2,886 | 120 | 0 | |
| 23 | ENGLISH LANGUAGE & LETTERS | 26,693 | 9,074 | 460 | 0 | |
| 24 | LIBERAL ARTS | 816 | 100 | 0 | 0 | |
| 26 | BIOLOGY | 8,740 | 4,355 | 458 | 0 | |
| 27 | MATHEMATICS & STATISTICS | 20,760 | 634 | 1,561 | 84 | |
| 31 | PARKS, RECREATION & FITNESS | 1,588 | 746 | 490 | 0 | |
| 38 | PHILOSOPHY | 3,240 | 1,132 | 0 | 0 | |
| 40 | PHYSICAL SCIENCES | 15,955 | 1,354 | 292 | 142 | |
| 42 | PSYCHOLOGY | 9,552 | 3,750 | 0 | 0 | |
| 44 | PUBLIC ADMINISTRATION | 0 | 0 | 672 | 0 | |
| 45 | SOCIAL SCIENCES | 19,510 | 9,352 | 588 | 0 | |
| 50 | FINE ARTS | 16,011 | 4,491 | 299 | 0 | |
| 51.22 | PUBLIC HEALTH | 24 | 534 | 0 | 0 | |
| 51.16 | NURSING | 1,964 | 5,262 | 1,709 | 0 | |
| 51.99 | OTHER HEALTH PROFESSIONS | 4,058 | 3,461 | 3,274 | 44 | |
| 52 | BUSINESS | 9,338 | 29,054 | 8,308 | 0 | |
| 54 | HISTORY | 9,364 | 3,470 | 288 | 0 | |
| Total | | 202,370 | 122,739 | 49,120 | 2,885 | 377,114 |

**Figure 3**

| DEGREES AWARDED BY PROGRAM | | | | | |
|---|---|---|---|---|---|
| FY 2001-02 | | | | | |
| | | POST | | POST | |
| | BACHELOR'S | BACHELOR'S | MASTER'S | MASTER'S | DOCTORAL |
| AREA STUDIES | 6 | | | | |
| BIOLOGY | 61 | | | | |
| BUSINESS | 381 | | 182 | 10 | |
| COMMUNICATION | 143 | | | | |
| COMPUTERS | 36 | | 42 | | |
| EDUCATION | 415 | 5 | 324 | 9 | 30 |
| ENGINEERING | 145 | | 132 | | 12 |
| FINE ARTS | 26 | | 7 | | |
| FOREIGN LANGUAGES | 18 | | 2 | | |
| ENGLISH & LETTERS | 76 | | 8 | | |
| PHILOSOPHY | 6 | | | | |
| LIBERAL ARTS | 91 | | | | |
| MATH | 6 | | 4 | | 1 |
| MULTI/INTERDISCIPLINARY STUDIES | 5 | | | | |
| PHYSICAL SCIENCES | 12 | | 7 | | 2 |
| PSYCHOLOGY | 116 | | | | |
| PUBLIC ADMINISTRATION | 6 | | 10 | | |
| SOCIAL SCIENCE & HISTORY | 135 | | 2 | | |
| CONSERVATION | 3 | | | | |
| NURSING | 105 | | 37 | 1 | |
| OTHER HEALTH PROFESSIONS | 64 | | 39 | 8 | |
| PARKS RECREATION & FITNESS | | | 7 | | |

| Fall Term | Undergraduate | | | Graduate | | | Total | | |
|---|---|---|---|---|---|---|---|---|---|
| | In-State | Out-State | Total | In-State | Out-State | Total | In-State | Out-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 |

Figure 5

## Oakland University
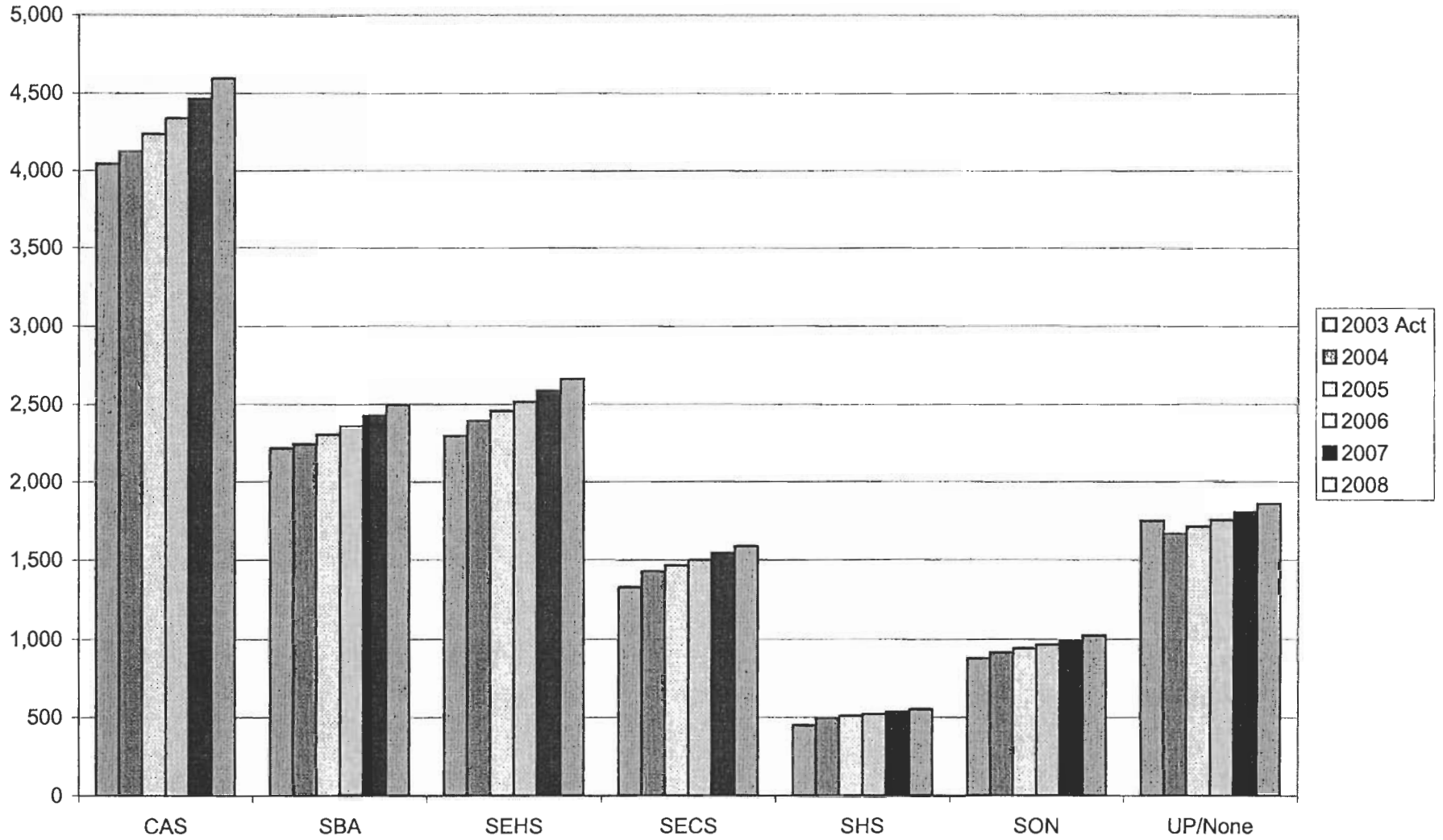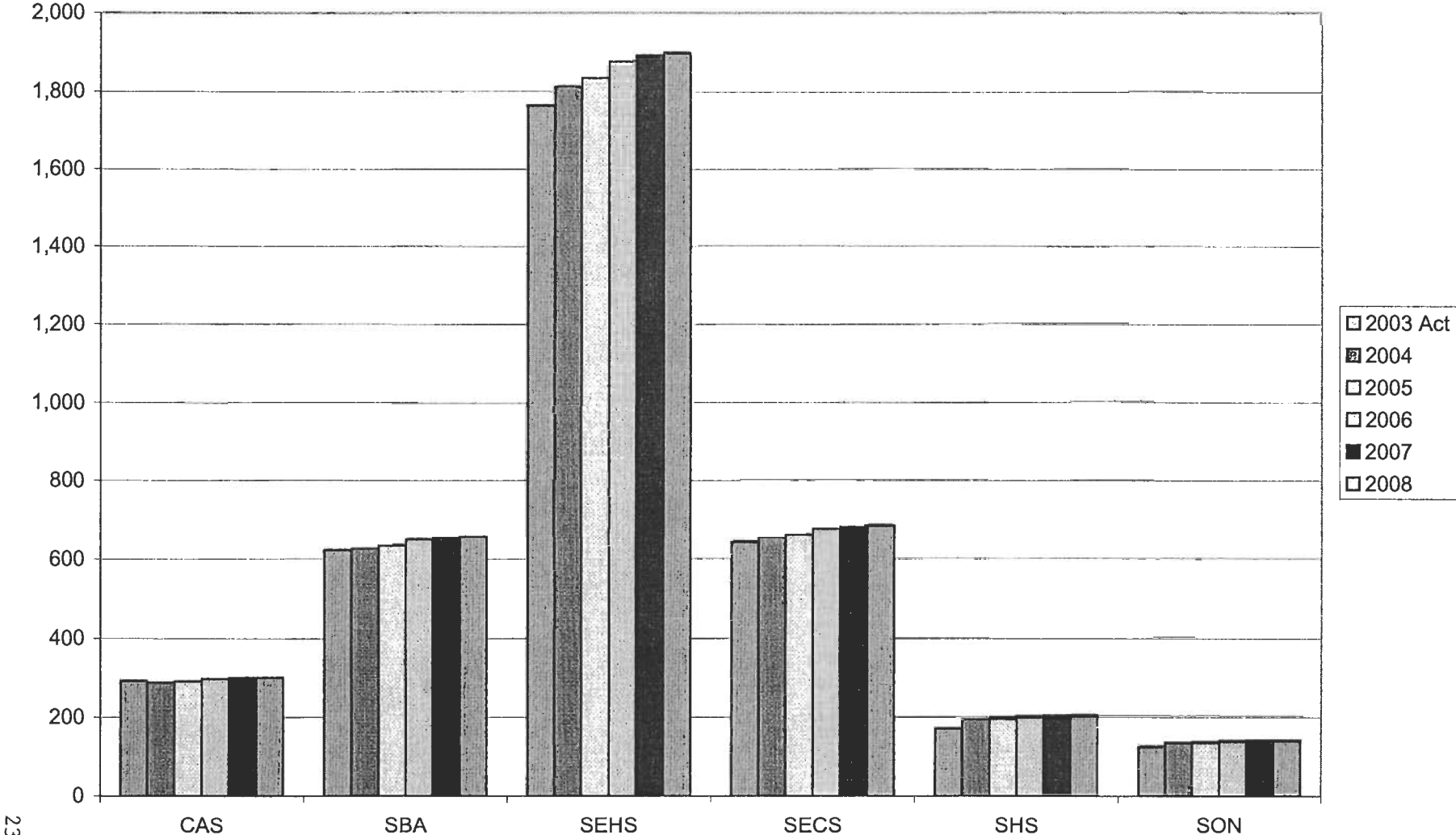## Undergraduate Enrollment Projections 2004 - 2008

OIRA 10/23/2003

Figure 6

# Oakland University
## Graduate Enrollment Projections 2004 - 2008

OIRA 10/23/2003

# Gross Sq Feet Per FYES in Michigan FY 2002

Figure 7

| Univ. | Ft²/Student |
|-------|-------------|
| MTU   | 346.6 |
| UM-AA | 343.3 |
| MSU   | 329.6 |
| WSU   | 286.0 |
| NMU   | 284.1 |
| LSSU  | 263.4 |
| FSU   | 174.4 |
| WMU   | 168.6 |
| SVSU  | 161.4 |
| UM-D  | 159.2 |
| CMU   | 138.8 |
| EMU   | 137.2 |
| **OU** | **111.3** |
| UM-F  | 105.8 |
| GVSU  | 104.3 |

- Classroom space, in modules, expanded from 1,200 in Fall 1999 to 1,305 in Fall 2000 with addition of Elliott Hall.

- Module utilization in Fall 1999 was 75.9%.

- Available modules were almost all during the day.

- Night class schedules are close to 100% of module utilization.

Source: Heidi Data Base

## IV. Facility Assessment
Utilization Rates

OU has one of the lowest building square footage per student 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 by national norms.

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

Mandated Standards

Mandated standards for animal research are met by the recently completed, OU funded, animal facility.

Functionality

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

- 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 Technology Facility.

- 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 by OU 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 – This building was completed in 1961 with additions in 1989. This is the central library for the institution.

- North Foundation Hall – This building was completed in 1959, and is primarily an administrative services building, but also includes three classrooms. The building is receiving a general facelift and significant improvements to the air distribution system. OU has been studying options for improving student services.

- O'Dowd Hall - Completed in 1982, this building houses the School of Nursing, the Graduate Office, the Registrar, the Departments of History, Linguistics and Philosophy and a number of general purpose classrooms. The building continues to suffer from leaks along the curtain wall that has been a problem for a number of years. The limited amount of space occupied by the School of Education and Human Services that was recently vacated, will be used to accommodate growth of other programs.

- South Foundation Hall - Completed in 1959, this building is primarily a classroom building. OU has been adding technology to the classrooms over the past several years. This building is used by nearly all academic disciplines.

- Varner Hall - Completed in 1970, houses the departments of Music, Theatre and Dance (MTD), Political Science, and Sociology/Anthropology. The facilities for MTD are inadequate to meet the needs of their growth program.

- Wilson Hall - Completed in 1967, houses the departments of Art and Art History; English; Modern Languages and Literature; and Rhetoric, Communications and Journalism. It also houses Meadow Brook Theatre and several administrative offices. The academic units in this building are cramped for space.

- Elliott Hall - Completed in 2000, houses the School of Business Administration and Information Technology.

- Education and Human Services Building - Completed in 2002, houses the School of Education and Human Services, as well as the Lowry Child Development Center. This state of the art facility is adequate to meet the needs of the schools planned growth program.

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. The average age for the entire campus is 47 years old. In general, buildings are in adequate condition. OU maintains a comprehensive list of deferred maintenance projects, which is updated annually.

Value of Facilities
The replacement value of OU's nearly 2.4 million square feet is estimated at $500 million, excluding Meadow Brook Hall, with a current insured value of $452 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 20 to 30 year age group needing upgrades to increase efficiency and effectiveness of operation.

## Facility Infrastructure Condition
The pavement/structural infrastructure is generally in good serviceable condition. Approximately $500,000 - $600,000 a year is allocated to pavement/sidewalk repair to restore the most deteriorated portions.

## Adequacy of Existing Utilities
The existing water/sewage infrastructure is adequate to serve the projected programming needs out at least 10 years, due to a recently installed additional water source and a "looping" the system.  A complete upgrade to the electrical system is completed, which included cabling, switchgear, and a new substation.  This upgrade will meet projected electrical needs for at least the next 15 years.

## Land
OU has nearly 1,500 acres.  The main campus is approximately 350 acres.  The remaining property includes several major developments (a faculty staff subdivision, the National Register Meadow Brook Estate, two OU-affiliated golf courses), a large amount of wetland, and significant underdeveloped 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:
- Library wings – lease expiration in 2008
- Science and Engineering Building – lease expiration in 2034
- Business and Information Technology – lease expiration in 2040
- Education and Human Services – lease expiration in 2042

The following facilities are bonded through OU/OU Foundation bonds:
- Recreation and Athletic Center - final payment in 2008
- Golf course - final payment in 2023
- 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

# Classroom Utilization Report

| Bldg/Room | Seat Count | Current Modules Used 15 Modules per room per week | % of Modules Used | Projected Future Modules Used 15 Modules per room per week | Projected % of Modules Used |
|---|---|---|---|---|---|
| **DHE (7)** | | | | | |
| *200* | 108 | 12* | 80.0% | 14* | 93.3% |
| *201* | 314 | 12 CD | 80.0% | 13 CD | 86.7% |
| *202* | 52 | 10* | 66.7% | 12* | 80.0% |
| *203* | 77 | 14 | 93.3% | 13* | 86.7% |
| *204* | 25 | 8* | 53.3% | 11* | 73.3% |
| *236* | 25 | 9* | 60.0% | 11* | 73.3% |
| *237* | 25 | 5 | 33.3% | 8* | 53.3% |
| **Bldg Totals** | **626** | **70** | **66.7%** | **82** | **78.1%** |
| | | | | | |
| **HHS (5)** | | | | | |
| *190* | 187 | 14* | 93.3% | 15* | 100.0% |
| *195* | 187 | 14.25* | 95.0% | 14 | 93.3% |
| *220* | 40 | 12.5* | 83.3% | 12 | 80.0% |
| *225* | 30 | 4 | 26.7% | 8.5 | 56.7% |
| *350* | 40 | 4 | 26.7% | 10 | 66.7% |
| **Bldg Totals** | **484** | **48.75** | **65.0%** | **59.5** | **79.3%** |
| | | | | | |
| **NFH (3)** | | | | | |
| *118* | 48 | 9* | 60.0% | 7 | 46.7% |
| *156* | 157 | 14* | 93.3% | 13 | 86.7% |
| *159* | 90 | 13 | 86.7% | 12 | 80.0% |
| **Bldg Totals** | **295** | **36** | **80.0%** | **32** | **71.1%** |
| | | | | | |
| **ODH (5)** | | | | | |
| *202* | 405 | 10 | 66.7% | 12 | 80.0% |
| *203* | 229 | 12 | 80.0% | 13 | 86.7% |
| *204* | 178 | 10.5 | 70.0% | 13 | 86.7% |
| *209* | 48 | 9 | 60.0% | 12 | 80.0% |
| *211* | 48 | 10 | 66.7% | 11 | 73.3% |
| **Bldg Totals** | **908** | **51.5** | **68.7%** | **61** | **81.3%** |
| | | | | | |
| **SEB (11)** | | | | | |
| *93* | 38 | 10* | 66.7% | 12* | 80.0% |
| *130* | 42 | 7 | 46.7% | 10.25 | 68.3% |
| *164* | 64 | 13* | 86.7% | 11.25 | 75.0% |
| *168* | 64 | 14 | 93.3% | 13 | 86.7% |
| *172* | 64 | 14 | 93.3% | 13 | 86.7% |
| *185* | 50 | 9 | 60.0% | 10.5 | 70.0% |
| *187* | 36 | 13 | 86.7% | 13 | 86.7% |
| *378* | 30 | 10 | 66.7% | 10 | 66.7% |
| *384* | 44 | 12* | 80.0% | 11 | 73.3% |
| *386* | 40 | 9.5 | 63.3% | 8.5 | 56.7% |
| *388* | 30 | 7.5 | 50.0% | 9 | 60.0% |
| **Bldg Totals** | **502** | **119** | **72.1%** | **121.5** | **73.6%** |

| | | | | | |
|---|---|---|---|---|---|
| **SFH (36)** | | | | | |
| *163* | 60 | 13* | 86.7% | 13.5 | 90.0% |
| *164* | 48 | 12 | 80.0% | 13 | 86.7% |
| *165* | 65 | 11.5 | 76.7% | 15 | 100.0% |
| *166* | 48 | 13 | 86.7% | 12 | 80.0% |
| *167* | 30 | 10 | 66.7% | 10 | 66.7% |
| *168* | 48 | 12 | 80.0% | 15 | 100.0% |
| *169* | 40 | 12.5 | 83.3% | 8.5 | 56.7% |
| *170* | 48 | 11 | 73.3% | 13 | 86.7% |
| *171* | 40 | 10 | 66.7% | 9 | 60.0% |
| *172* | 48 | 12 | 80.0% | 13 | 86.7% |
| *173* | 48 | 12 | 80.0% | 11 | 73.3% |
| *174* | 48 | 11 | 73.3% | 13 | 86.7% |
| *176* | 48 | 11 | 73.3% | 8.25 | 55.0% |
| *263* | 65 | 14 | 93.3% | 12 | 80.0% |
| *265* | 25 | 13 | 86.7% | 14 | 93.3% |
| *268* | 45 | not available | | 12 | 80.0% |
| *269* | 48 | 11 | 73.3% | 13 | 86.7% |
| *270* | 45 | not available | | 9 | 60.0% |
| *271* | 40 | 12 | 80.0% | 13 | 86.7% |
| *272* | 45 | not available | | 12 | 80.0% |
| *273* | 45 | 12 | 80.0% | 15* | 100.0% |
| *274* | 48 | 11 | 73.3% | 12.5 | 83.3% |
| *276* | 48 | 11 | 73.3% | 12 | 80.0% |
| *363* | 60 | 13* | 86.7% | 14 | 93.3% |
| *364* | 45 | 12 | 80.0% | 10 | 66.7% |
| *365* | 65 | 11 | 73.3% | 11 | 73.3% |
| *366* | 45 | 12 | 80.0% | 12 | 80.0% |
| *367* | 48 | 11 CD | 73.3% | 12 | 80.0% |
| *368* | 45 | 13 | 86.7% | 13 | 86.7% |
| *369* | 45 | 10 CD | 66.7% | 13 CD | 86.7% |
| *370* | 40 | 10 CD | 66.7% | 12 CD | 80.0% |
| *371* | 40 | 12 CD | 80.0% | 14 CD | 93.3% |
| *372* | 45 | 14 | 93.3% | 13 | 86.7% |
| *373* | 36 | 12 | 80.0% | 11* | 73.3% |
| *374* | 48 | 11.5 | 76.7% | 12.5* | 83.3% |
| *376* | 48 | 12 | 80.0% | 14 | 93.3% |
| **Bldg Totals** | **1683** | **388.5** | **78.5%** | **440.25** | **81.5%** |
| | | | | | |
| **VAR (5)** | | | | | |
| *205* | 90 | 14 | 93.3% | 13 | 86.7% |
| *206* | 90 | 13 | 86.7% | 14 | 93.3% |
| *222* | 25 | 12 | 80.0% | 13 | 86.7% |
| *224* | 25 | 11 | 73.3% | 9.5 | 63.3% |
| *229* | 25 | 12.5 | 83.3% | 11 | 73.3% |
| **Bldg Totals** | **255** | **62.5** | **83.3%** | **60.5** | **80.6%** |

| | | | | | |
|---|---|---|---|---|---|
| **VBH (2)** | | | | | |
| *106* | 48 | classes moved to HHS | | 10 | 66.7% |
| *119* | 60 | classes moved to HHS | | 7 | 46.7% |
| **Bldg Totals** | **108** | | | **17** | **56.6%** |
| | | | | | |
| **WH (6)** | | | | | |
| *102* | 60 | 12 | 80.0% | 13 | 86.7% |
| *105* | 60 | 14 | 93.3% | 14 | 93.3% |
| *124* | 90 | 10 | 66.7% | 11 | 73.3% |
| *301* | 20 | 10 | 66.7% | 12 | 80.0% |
| *313* | 25 | 14 | 93.3% | 12 | 80.0% |
| *416* | 15 | 1 (4 max) | 25.00% | 3 (4 max) | 75.0% |
| **Bldg Totals** | **270** | **51** | **56.7%** | **65** | **82.3%** |
| | | | | | |
| **UNIV (80)** | **5131** | **827 (1125 max)** | **73.5%** | **939 (1200 max)** | **78.3%** |
| | | 825 Day Modules per week | 270 Modules available | 884 Day Modules per week | 250 Modules available |
| | | 300 Night Modules per week | 28 Modules available | 320 Night Modules per week | 15 Modules available |

\* - denotes use of 3:30 - 5:30
module, which uses two modules
CD - College Days scheduled in
this room, two modules used

## V. Implementation Plan
OU has prioritized its capital program to address the most pressing space deficits and to be responsive to programmatic and technology changes.

### State Funding Requests
Per the guidance in State Budget Office letter of September 15, 2003, Subject: **Fiscal Year 2005 Capital Outlay Budget Information**, only OU's top priority capital outlay request is to be submitted.  In accordance with that guidance, OU provides the following as the top priority:

Oakland University Engineering Center ($59.5 million)
The proposed OU Engineering Center (OUEC) building would provide appropriate instructional and research facilities for programs that support the automotive industry so critical to the economy of southeastern Michigan and the State of Michigan as a whole. The new facility would add approximately 65,300 net square feet (108,800 gross square feet), providing space for general-purpose classrooms, integrated design laboratories, an advanced design laboratory, and an engineering learning center.  The project also includes the repair/renovation of 5,000 square feet of space (being vacated by functions moving into the new OUEC) for the School of Health Sciences, which will support the *Wellness, Health Promotion, and Injury Prevention* Program and the *Exercise Science* Program.

### University Funded Priorities
Student Apartments ($21 million)
This project involved the construction of 460 new beds in apartment style units. Construction was completed in August 2002.

Electrical Upgrade ($4.8 million)
This project involved the construction of a Detroit Edison Substation on OU property. OU will have use of about 15% of the substation capacity, sufficient to meet OU's main campus needs into the foreseeable future, with redundancy.  The project also involved upgrading the main campus distribution system, which has gone beyond its normal life expectancy and is badly deteriorated.  Construction was completed in November 2002.

Parking Garage ($6 million)
A parking study recommended that a 550-space parking structure be constructed in the short term to accommodate the increased demands for parking spaces as OU continues to grow.  Construction was completed in November 2002.

Addition/Renovation of North Foundation Hall ($4 million)
This project is proposed to consolidate student services into a single facility in order to provide better student services.

Deferred Maintenance
Priorities for maintenance funding are based on an extensive inventory of the deferred

maintenance needs for the entire campus.  This inventory is organized into three levels of priority.  Generally, projects in priority one are funded ahead of projects in the other two categories.  However, sometimes programmatic needs impact funding.  The list is reviewed annually for priority adjustments.  Over the past several years, OU has invested an average of nearly $1 million per year in deferred maintenance projects.

State Building Authority Projects
The $31.5 million School of Education and Human Services Building was recently completed.  The 132,000 square foot facility is fully occupied.

Rate of Return
Investment in new and renovated facilities will allow OU to serve the demands for higher education in its primary service area.

Alternatives
Distance learning, as previously discussed, is a supplement to the on-site programs.  It is not considered a significant alternative to face-to-face, on-site education for the student population we serve.

# DEFERRED MAINTENANCE BACKLOG

## OAKLAND UNIVERSITY

### EXECUTIVE SUMMARY
January 2003

Facilities Management has developed a listing of Deferred Maintenance, Capital Renewal, and Plant Adaption items. The computerized backlog, which is structured on Microsoft's "Access" -- a relational database management system, contains 643 line items--totaling over $54 million. Entries are also shown for numerous lesser main and east campus buildings. Facility assessment audits will continue utilizing in-house staff resources, as time permits, surveying all campus buildings on a somewhat regular basis. In addition to this summary report, the database is capable of producing ad-hoc reports by priority ranking, building system, and backlog category. Entries currently shown are by building or campus (alphabetically listed), and priority ranked.

Category definitions, criteria for priority ranking, as well as line item abbreviations are displayed following this summary. All cost estimates are order-of-magnitude numbers, (plus or minus 25%). The methodology utilized for the building assessment surveys, as well as the inspection criteria and definitions, was adapted from "The Facilities Audit" by Harvey Kaiser (1993); and from the APPA standard process for improving facilities conditions.

The objective with this document, in addition to identifying our needs, is to raise awareness of the deferred maintenance liability, and to serve as a point of departure for broader facilities planning. Achieving financial equilibrium is the essence of responsible facilities management. Being "good stewards" of what we inherited, and will pass on to others, is not only a complex and difficult task, it is also a problem the University must solve, for the most part, on it's own.

# DEFERRED MAINTENANCE/CAPITAL RENEWAL BACKLOG

## FORM ABBREVIATIONS

**PRIORITY**     -     Ranked 1 through 3.  Refer to Category Definition Sheet.

**ESTIMATED COST**     -     Order of Magnitude - Estimate to nearest hundred dollars.  Backlog contains those line items over $5,000 expressed in year 2001 dollars.

**CAMPUS SYSTEM**     -     Electrical  (Elec)
Mechanical  (Mech)
Structural  (Struc)
Life-Safety/Code Compliance  (LS/CC)
Energy Management  (Energy)
Roads, Walks & Parking Lots  (R/W&PL)
High Temp Hot Water  (HTHW)
Interior Building Deficiencies   (Int Bldg)
Grounds (Grds)
Interior & Exterior Lighting (Lighting)

**CATEGORY**     -     Refer to Category Definitions.
    Deferred Maintenance & Repair   (Def Mtce)
    Capital Renewal & Replacement  (Cap Ren)
    Plant Adaption (Plt Adap)

**CORRECTION**     -     In-House Staff  (In House)
Contractor  (Cntr)

**DATE**     -     Date (Month/Day/Yr.) entered into backlog

## DEFERRED MAINTENANCE AND REPAIR
## CAPITAL RENEWAL AND REPLACEMENT

## BACKLOG DEFINITIONS

**DEFERRED MAINTENANCE AND REPAIR** are those actual work tasks/projects, from the current and prior years, that were not included in the regular maintenance process because they could not be funded within available operating budget dollars. It includes postponed repairs, as well as unscheduled corrective and preventive maintenance of buildings and grounds systems. Deferred maintenance consists of unfunded maintenance; the lack of which results either in a progressive deterioration of the facility, or an adverse impact on the functionality of the building/grounds system.

**CAPITAL RENEWAL AND REPLACEMENT** is the systematic management process to identify, plan and budget for known future cyclical renewal and replacement requirements; which extend the useful service life, and retain the functional condition of campus facilities and building systems, that are not normally contained in the annual operating budget. This includes major systems that have a maintenance cycle typically in excess of five years (e.g., roof replacement, interior painting, classroom renovations, resurfacing of roads, HVAC System replacement, etc.). These expenditures keep the physical plant in reliable operating condition for its present use.

**PLANT ADAPTION** is the programmatic process to plan and fund for either (1) the evolving use of the institution (remodeling, alterations, renovations, etc.), or (2) changing standards (campus master plans, architectural standards, regulatory compliance, etc.). These expenditures are over and above normal maintenance, and are not typically contained in the annual operating budget.

**CORRECTIVE AND/OR PREVENTIVE MAINTENANCE** is normal maintenance, part of a systematic day-to-day process funded by the annual operating budget, to control deterioration of physical plant facilities. It includes planned repetitive work, providing scheduled maintenance, making minor repairs, and responding to call-in requests for service.

**FACILITIES CONDITION INDEX (FCI)** is the principal indicator recognized by both the Association of Higher Education Facilities Officers (APPA), and the National Association of College and University Business Officers (NACUBO), for measuring the scope of maintenance needs at colleges and universities. It represents the condition of campus buildings relative to their current replacement value; and is useful in deferred maintenance scheduling, planning for building renovations, and benchmarking.

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# DEFERRED MAINTENANCE & REPAIR
## CAPITAL RENEWAL & REPLACEMENT
## PLANT ADAPTION

## BACKLOG ITEM RANKING

PRIORITY 1        System failure that could either severely limit or preclude <u>critical</u> campus activities. Role and Mission of OU could be adversely impacted. Serious health and safety issues might be involved. Risk of extensive property damage. Typically impacts entire campus, or at least one major building. Highest deferral category connoting a definite sense of urgency for funding.

PRIORITY 2        System failure that could either severely limit or preclude <u>essential</u> building functions. Risk of significant property damage is possible if not addressed in timely manner. Typically impacts a single building or campus facility. Important that this deferred item be funded; at least partially, if not completely. Postponement will likely incur higher costs.

PRIORITY 3        Failure to repair or replace could have <u>serious</u> negative consequences for campus facilities. Facility function and campus image is adversely impacted. Building system operation and/or structural integrity is questionable. System failure is possible if condition remains unresolved.

# DEFERRED MAINTENANCE, CAPITAL RENEWAL PLANT ADAPTION

| SYSTEM | PRIORITY 1 | PRIORITY 2 | PRIORITY 3 | SUBTOTALS | % OF TOTAL |
|---|---|---|---|---|---|
| Energy Management | $ 12,000 | $ 245,600 | $ 359,300 | $ 616,900 | 1.14% |
| Electrical Systems | $ 100,000 | $ 579,800 | $ 907,800 | $ 1,587,600 | 2.93% |
| Grounds | $ 380,100 | $ 1,733,600 | $ 1,587,300 | $ 3,701,000 | 6.84% |
| HTHW Systems | $ 10,300 | $ 1,559,400 | $ 1,300,000 | $ 2,869,700 | 5.30% |
| Interior Building | $ 54,000 | $ 2,536,000 | $ 1,463,500 | $ 4,053,500 | 7.49% |
| Life Safety & Code Compliance | $ 118,000 | $ 5,012,700 | $ 158,000 | $ 5,288,700 | 9.78% |
| Lighting | $ 23,400 | $ 185,700 | $ 254,600 | $ 463,700 | 0.86% |
| Mechanical Systems | $ 2,245,600 | $ 4,582,700 | $ 12,782,700 | $ 19,611,000 | 36.24% |
| Roads/Walks/Parking Lots | $ 101,800 | $ 2,153,000 | $ 7,703,500 | $ 9,958,300 | 18.40% |
| Structural Systems | $ 536,100 | $ 3,671,900 | $ 1,757,600 | $ 5,965,600 | 11.02% |
| | | | | | |
| TOTALS | $ 3,581,300 | $ 22,260,400 | $ 28,274,300 | $ 54,116,000 | 100.00% |

| CATEGORY | SUBTOTAL | % OF TOTAL |
|---|---|---|
| Def Mtce | $ 9,775,800 | 18.06% |
| Cap Ren | $ 13,261,900 | 24.51% |
| Plt Adap | $ 31,078,300 | 57.43% |
| | | |
| TOTALS | $ 54,116,000 | 100.00% |

| BLDG | GSF | Construction Cost/GSF | Current Replacement Value | Accumulated Renewal - Maintenance Backlog | Facilities Condition Index | Benchmarks Per APPA |
|---|---|---|---|---|---|---|
| Building & Grounds Maintenance | 14,400 | 78 | $ 1,126,570 | $ 255,380 | 0.23 | **POOR** |
| Central Heating Plant | 16,833 | 281 | $ 4,755,529 | $ 336,903 | 0.07 | **FAIR** |
| Lowery Early Childhood Center | 4,388 | 135 | $ 594,157 | $ 192,466 | 0.32 | **POOR** |
| Dodge Hall of Engineering | 151,204 | 240 | $ 36,397,827 | $ 1,003,196 | 0.03 | GOOD |
| Fitzgerald House | 20,610 | 145 | $ 2,997,415 | $ 766,200 | 0.03 | GOOD |
| Graham Health Center | 13,161 | 135 | $ 1,782,065 | $ 142,118 | 0.08 | **FAIR** |
| Hamlin Hall | 143,872 | 171 | $ 24,675,918 | $ 5,708,450 | 0.02 | GOOD |
| Hannah Hall of Science | 89,418 | 240 | $ 21,524,701 | $ 259,700 | 0.01 | GOOD |
| Hill House | 42,552 | 171 | $ 7,298,221 | $ 1,625,165 | 0.02 | GOOD |
| John Dodge House | 10,696 | 146 | $ 1,566,301 | $ 44,170 | 0.03 | GOOD |
| Kresge Library | 164,522 | 173 | $ 23,597,226 | $ 921,604 | 0.04 | GOOD |
| Meadow Brook Health Enhancement Institute | 11,385 | 137 | $ 1,564,424 | $ 56,200 | 0.04 | GOOD |
| Family Student Housing | 47,464 | 129 | $ 6,141,225 | $ 185,000 | 0.03 | GOOD |
| North Foundation Hall | 67,691 | 165 | $ 11,202,522 | $ 722,998 | 0.06 | **FAIR** |
| Oakland Center | 115,835 | 178 | $ 20,680,486 | $ 819,384 | 0.04 | GOOD |

| Building | Sq Ft | Age | Current Rep. Value | Acc. Def Maint. | FCI | Bldg Condition |
|---|---|---|---|---|---|---|
| O'Dowd Hall | 105,000 | 160 | $ 16,850,400 | $ 3,040,472 | 0.18 | **POOR** |
| Pryale House | 20,829 | 160 | $ 3,342,638 | $ 1,070,500 | 0.18 | **POOR** |
| Police and Support Service | 26,444 | 137 | $ 3,663,697 | $ 498,600 | 0.14 | **POOR** |
| Elliott Hall | 74,580 | 173 | $ 12,941,047 | $ 36,300 | 0.02 | GOOD |
| School of Ed & Human Resouces | 132,406 | 190 | $ 25,175,330 | $ 47,200 | 0.00 | GOOD |
| Science & Engineering Building | 182,994 | 247 | $ 45,335,117 | $ 284,200 | 0.01 | GOOD |
| South Foundation Hall | 55,041 | 160 | $ 8,832,980 | $ 189,018 | 0.02 | GOOD |
| Student Recreation Athletic Center | 253,494 | 144 | $ 36,612,645 | $ 289,901 | 0.01 | GOOD |
| Sunset Terrace | 12,587 | 175 | $ 2,209,333 | $ 31,862 | 0.01 | GOOD |
| Residential Student Housing | 181,291 | 99 | $ 18,024,339 | $ 1,900 | 0.00 | GOOD |
| Varner Hall | 119,939 | 250 | $ 30,074,704 | $ 1,876,407 | 0.06 | **FAIR** |
| Vandenberg Hall | 177,571 | 171 | $ 30,455,735 | $ 6,162,250 | 0.20 | **POOR** |
| Van Wagoner Hall | 43,305 | 171 | $ 7,427,370 | $ 1,693,944 | 0.02 | GOOD |
| Wilson Hall/Meadow Brook Theatre | 98,153 | 149 | $ 15,435,217 | $ 810,420 | 0.05 | |
| **TOTALS** | 2,397,665 | AVG: 170 | $422,285,139 | $29,071,908 | | |

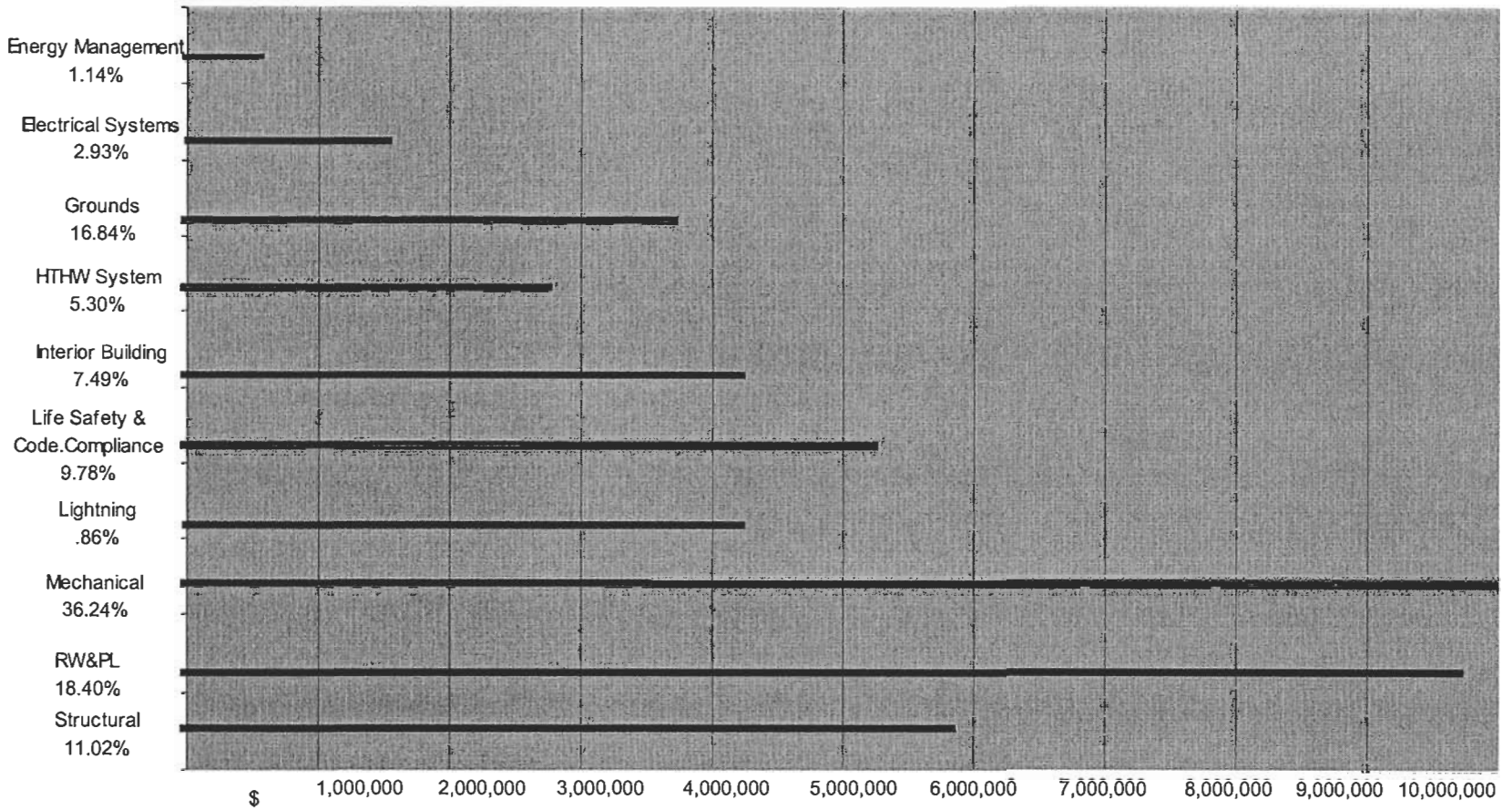**Current Benchmarks Utilized by APPA:**

| FCI | Bldg Condition |
|---|---|
| 0 – 0.05 | Good |
| 0.05 – 0.10 | Fair |
| Above 0.10 | Poor |

$$FCI = \frac{Acc.\ Def\ Maint.}{Current\ Rep.\ Value}$$

FACILITIES CONDITION INDEX (FCI) is the principle indicator utilized by both the Association of Higher Education Facilities Officers (APPA), and the National Association of College and University Business Officers (NACUBO), for measuring the scope of maintenance needs at colleges and universities. It represents the condition of campus buildings relative to their current replacement value; and is useful in deferred maintenance scheduling planning for building renovations and benchmarking.

BREAKOUT OF FUNDING NEEDS
FOR
DEFERRED MAINTENANCE, CAPITAL RENEWAL, & PLANT ADAPTION



| Category | |
|---|---|
| Energy Management | 1.14% |
| Electrical Systems | 2.93% |
| Grounds | 16.84% |
| HTHW System | 5.30% |
| Interior Building | 7.49% |
| Life Safety & Code.Compliance | 9.78% |
| Lightning | .86% |
| Mechanical | 36.24% |
| RW&PL | 18.40% |
| Structural | 11.02% |

$  1,000,000  2,000,000  3,000,000  4,000,000  5,000,000  6,000,000  7,000,000  8,000,000  9,000,000  10,000,000

**Oakland University**
**FY 2005 CAPITAL OUTLAY PROJECT REQUEST**
**Oakland University Engineering Center**
**Total Project Cost: $59,538,000**

========================================================================

*Is The Project A Renovation or New Construction?*          Ren _x_     New_x_
*Is There a 5 Year Master Plan Available?*                  Yes _x_     No ___
*Are Professionally Developed Program Statement and/or*
  *Schematic Plans Available Now?*                          Yes ___     No _x_
*Are Match Resources Currently Available?*                  Yes ___     No _x*_
*Has the University Identified Available Operating Funds?*   Yes _x_     No _x_

                                                     *See Paragraph D below

## A. Project Description Narrative

The proposed *Oakland University Engineering Center* (OUEC) is designed to provide appropriate instructional and research facilities for programs that support automotive, defense and other industries critical to the economy of southeastern Michigan and the State of Michigan as a whole. The EDC will add approximately 65,300 square feet of assignable space to the School of Engineering and Computer Science (SECS), sufficient to house approximately one-third of the School. The project also includes a 500-space parking structure to support the center and the repair/renovation of 5,000 square feet of space (being vacated by functions moving into the new OUEC) for the School of Health Sciences, which will support the Wellness, Health Promotion, and Injury Prevention Program and the Exercise Science Program.

The new OUEC will house the following facilities:

*   *Integrated Design Laboratory* (IDL);
*   *Advanced Design Laboratory* (ADL);
*   *Engineering Student Learning Center*;
*   Department of Computer Science and Engineering;
*   A 300 person classroom/auditorium and eleven general purpose classrooms; and SECS's main office.

The *Integrated Design Laboratory* is envisioned as a four-layered rotunda of laboratories containing high-visibility freshmen and senior project design laboratories for all undergraduate programs, a number of computer facilities and all the *common core* course laboratories. A core arrangement such as this will re-affirm OU's commitment to the "hands on" philosophy of the founding SECS faculty. It will integrate the learner's design experience throughout the curriculum from freshmen through graduate level and will further enhance the unique character of the undergraduate engineering experience at OU through direct design opportunities. 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 showcase our close interaction with the automotive industry and highlight our contributions to the economic development of the region.

The *Advanced Design Laboratory* will house several advanced research and development projects in the SECS, with particular emphasis on the already mature interaction with the automotive industry.

The *Engineering Learning Center* will provide for multiple functions, including advising, tutoring,

intern/scholarships and a student lounge. The student lounge will be not only a quiet place to do homework between classes, but also a social gathering place for students and student organizations and, above all, a place where lower classmen can get instant structured and unstructured advice and help from senior students.

The OUEC will incorporate elements currently residing in several other facilities on campus while expanding programs necessary to maintain OU's leadership in engineering for automotive, defense and other technical industries. Nearly two-thirds of the SECS programs will remain within the current Science and Engineering complex, and the OUEC will be located in close proximity to them within the campus environment. The previous Capital Outlay Project Request referred to this project as an Engineering Design Center with a program of 62,900 net square feet. The change in name to Oakland University Engineering Center better reflects the intent for the facility to serve as the core of engineering education at the University. The increase in requested program amount is a result of added general purpose classrooms to provide badly needed classroom space. It is anticipated that the programming and design phase will require one year, followed by two years of construction.

## B. Other Alternatives Considered

The School of Engineering and Computer Science will be the primary occupant of the proposed new facility. Currently, programs are housed in the Science and Engineering complex and scattered among five buildings. Relative to national norms, the School has only about one-half of the teaching and research lab space for the types of programs being delivered. Projections indicate a doubling of student FTE's within ten years. The OUEC is critical to meet the needs of this growing program. There is no other space on campus that could be cost effectively renovated to meet the needs of these programs. In general, OU has one of the lowest ratios of space to students of all the public universities in Michigan. Growth in space has not nearly kept pace with enrollment growth, particularly in the SECS.

OU has recently entered into a partnership with Macomb Community College to offer engineering degrees using a combination of facilities at Macomb and OU. This program is not a substitute for continued growth at OU. Without the proposed new facility, it will not be possible for OU to continue its dynamic growth in programs for automotive related disciplines and will not be able to help meet the demand for qualified graduates in this field that is so critical to the State's economy.

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

The demand for qualified graduates in the areas of computing and automotive related technology fields continues to exceed the number available. With its prime location adjacent to a number of auto-related and defense-related industry headquarters at the intellectual center of the global automotive industry and its rapidly growing School of Engineering and Computer Science, OU is poised to help meet this demand. The OUEC is designed to enhance use of existing facilities and provide additional facilities for instructional programs and industry-related initiatives. OU provides a number of services directly to industry, primarily in the form of research projects, tailored education initiatives, and state-supported grants.

## D. Funding Resources

The University is initiating a capital campaign. It is expected that required resources would be available by the time this project receives State funding approval.

## FACILITY ASSESSMENT

Functionality-Continued:
With regard to addressing issues of facility renewal, two decision-making tools are currently available at OU; the Deferred Maintenance Backlog, and Facilities Condition Index (FCI). The computerized backlog, structured on Microsoft Access, contains over 640 line items, priority ranked, and currently totaling over $54 million. At present, based on facility assessment surveys, the database covers 28 major campus buildings; utilizing a discrepancy criteria of $5,000 or above. The methodology utilized for the building assessment surveys was adapted from "The Facilities Audit" by Harvey Kaiser (1993). The objective of this Backlog, in addition to identifying our campus needs, is to raise awareness of the deferred maintenance liability, and to serve as a viable tool for facilities planning. Utilizing Facilities Condition Indexes, Indicators recognized by both The Association of Higher Education Facilities Officers (APPA) and the National Association of College and University Business Officers (NACUBO), the condition of OU's main campus buildings are continuously undergoing assessments; measurement of accumulated deferred maintenance, relative to current replacement value. FCI is useful in deferred maintenance scheduling, facilities planning, building renovations, and benchmarking.