

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 50th 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

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 motivated students, 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
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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
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OAKLAND UNIVERSITY
GRADUATE DEGREE PROGRAMS (53/30)

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
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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
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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
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Specializations Within MACC

3110	Public Accounting
3120	Managerial Accounting
3130	Systems Accounting

Master of Business Administration (1)

3900	Business Administration (includes EMBA)
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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
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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

School of Ed. and Human Services (12)

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 Practitioner
7280 Family Nurse Practitioner
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 - Faculty and Staff Full Time Equivalent (FTE) by Program, FY 2001-02

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 - Student Credit Hours by Level and by Program, FY 2002-03

This chart shows credit hours awarded for the most recently completed fiscal year by instructional discipline.

Figure 3 - Degrees Awarded by Program, FY 2001-02

This chart shows the degrees awarded by program for the most recently completed fiscal year.

Figure 4 - Enrollment Trends from Fall 1998 to Fall 2003

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 - Undergraduate Projected Enrollment Growth Trends, Fall 2003 to Fall 2008 by College and School

By 2008, OU expects major increases in undergraduate enrollments.

Figure 6 - Graduate Projected Enrollment Growth Trends, Fall 2003 to Fall 2008 by College and School

By 2008, OU expects major increases in graduate enrollments.

Figure 7 - Gross Square Feet per Student in Michigan

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.

Figure 1

FACULTY AND STAFF FTE BY PROGRAM				
FY 2001-02				
	FACULTY	ADMINISTRATION	CLERICAL AND SERVICE	
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 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		

Enrollment by Level and Residency Fall 1998-2003

Figure 4

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

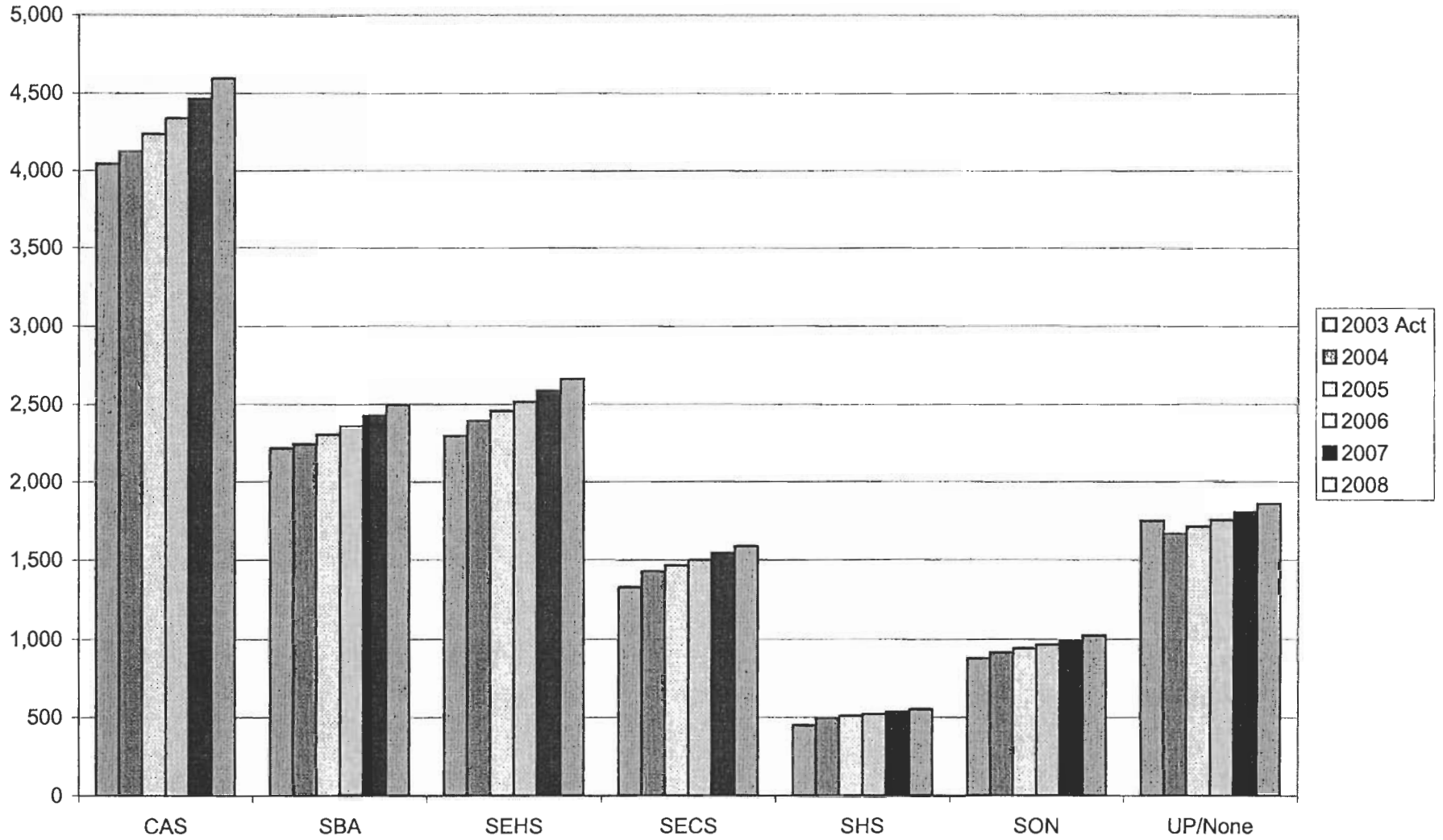
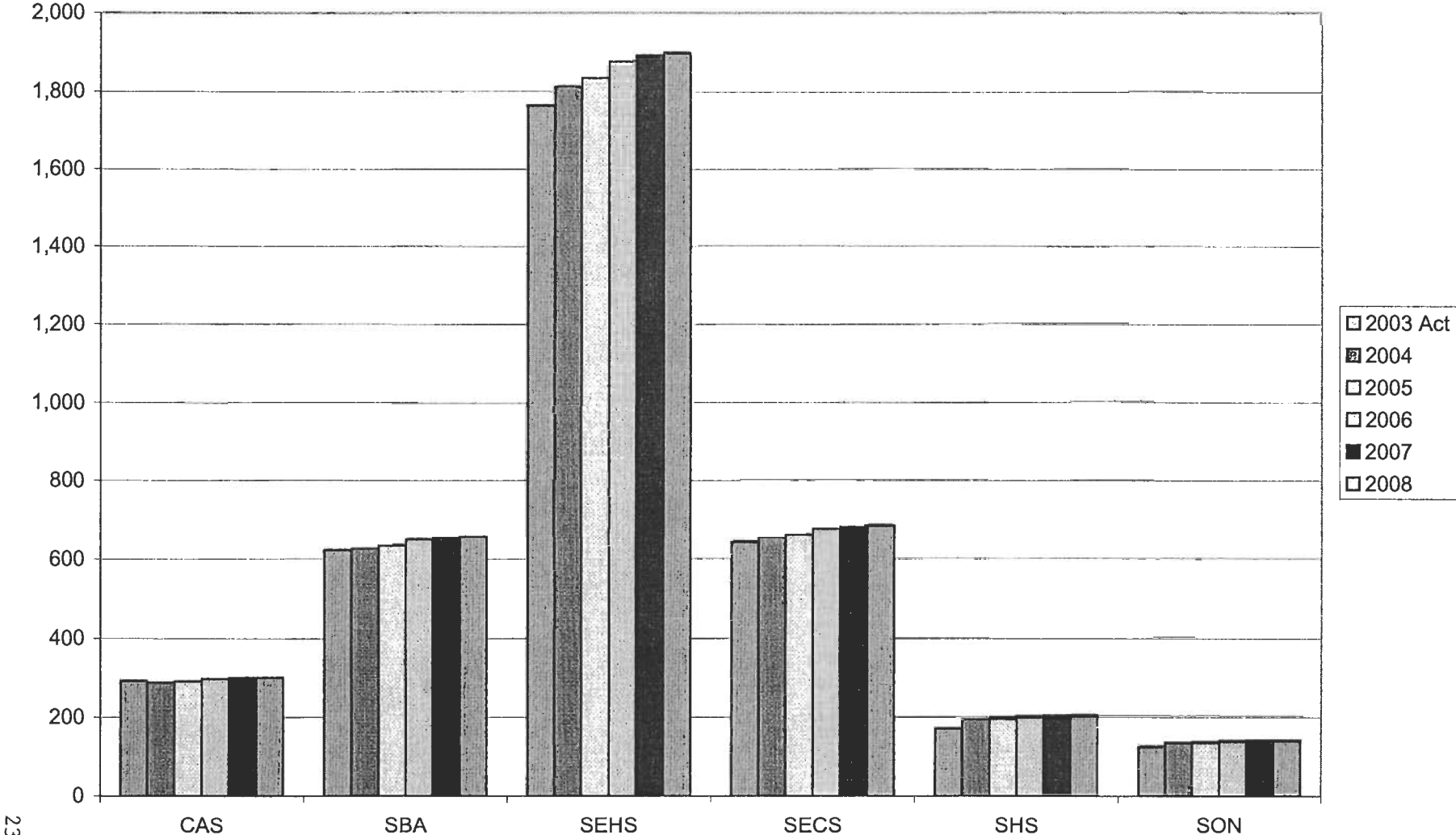


Figure 6

Oakland University Graduate Enrollment Projections 2004 - 2008



Gross Sq Feet Per FYES in Michigan FY 2002

<u>Univ.</u>	<u>Ft²/Student</u>
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.

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	% of Modules Used	Projected Future Modules Used	Projected % of Modules Used
		15 Modules per room per week		15 Modules per room per week	
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.

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

BACKLOG ITEM RANKING

PRIORITY 1

System failure that could either severely limit or preclude critical 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 essential 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 serious 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%

<u>BLDG</u>	<u>GSF</u>	<u>Construction Cost/GSF</u>	<u>Current Replacement Value</u>	<u>Accumulated Renewal - Maintenance Backlog</u>	<u>Facilities Condition Index</u>	<u>Benchmarks Per APPA</u>
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

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	

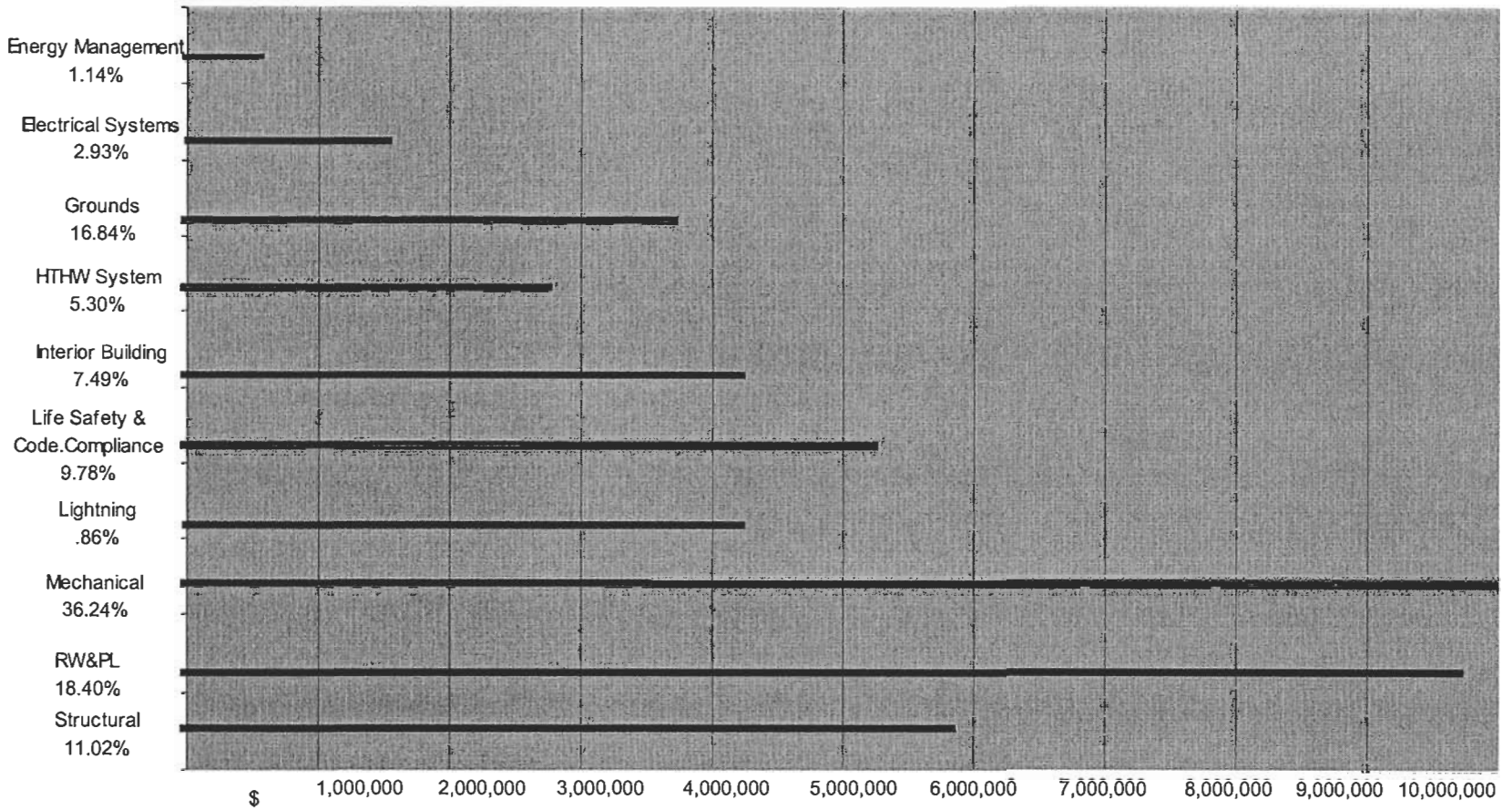
Current Benchmarks Utilized by APPA:
FCI **Bldg Condition**
0 – 0.05 Good
0.05 – 0.10 Fair
Above 0.10 Poor

**FCI = 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.

Structural Systems

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



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



<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 Program Statement and/or Schematic Plans Available Now?</i>	Yes <u> </u>	No <u> x </u>
<i>Are Match Resources Currently Available?</i>	Yes <u> </u>	No <u> x* </u>
<i>Has the University Identified Available Operating Funds?</i>	Yes <u> x </u>	No <u> x </u>

*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.