Welcome to the 2004-2006 University Catalog

This publication is the key to planning your academic program as a beginning or a continuing UT student. Please become familiar with its contents. Students should consult their college advisers to facilitate planning of course schedules for the fall and spring semesters. The 2004-2006 University of Toledo Catalog is designed to familiarize students, faculty and staff with University academic policies, course offerings, academic programs and college degree requirements. This publication includes the following major sections: a general information section explaining UT’s academic policies, regulations and procedures; a program description section listing degree options for each academic college; and a course description section outlining each of approximately 6,000 course offerings.

Founded in 1872, The University of Toledo is a nationally recognized, comprehensive public university serving more than 20,000 students from throughout Ohio, the U.S. and 98 countries. The fourth largest public university in the state, UT is a Carnegie Doctoral/Research – Extensive institution and a member of the Commission on Institutions of Higher Education. UT offers more than 250 undergraduate and graduate programs through eight academic colleges. These are the colleges of Arts and Sciences, Business Administration, Education, Engineering, Health and Human Services, Law, Pharmacy and University College.

Important Notice about this Catalog:

This catalog is published for informational purposes only. While every effort is made to provide accurate and current information, The University of Toledo reserves the right to modify rules, policies, fees, program requirements, course scheduling and courses offered during any specific semester, and any other matter, without notice. It is the responsibility of the student to meet and satisfy all University, college and program requirements applicable at the time of his/her enrollment in the program. Questions concerning the contents of this catalog should be directed to the appropriate college adviser.
Admissions and General Information

The Undergraduate Colleges:
- Arts and Sciences
- Business Administration
- Education
- Engineering
- Health and Human Services
- Pharmacy
- University College

The Graduate School:
- Arts and Sciences
- Business Administration
- Education
- Engineering
- Health and Human Services
- Pharmacy

The College of Law
University Libraries
Course Descriptions

Affirmative Action/Equal Opportunity Policy

The University of Toledo is committed to a policy of equal opportunity in education, employment, membership and contracts and no differentiation will be made based on race, color, religion, sex, age, national origin, sexual orientation, veteran status and/or the presence of a disability. The University will take affirmative action as required by federal or state law.
Officers of the General Administration

Office of the President
Daniel M. Johnson, Ph.D., President

Office of the Provost
Alan G. Goodridge, Ph.D., Provost and Executive Vice President for Academic Affairs and Enrollment Services

Robert Sheehan, Ph.D. ................................................................. Senior Vice Provost for Academic Affairs
William L. Bischoff Jr., Ph.D. ....................................................... Vice Provost for Academic Programs and Policies
Frank J. Calzonetti, Ph.D. ......................................................... Vice Provost for Research, Graduate Education and Economic Development
Martin Abraham, Ph.D. .............................................................. Dean of the Graduate School
William R. Decatur, J.D. ............................................................ Senior Vice President for Finance, Technology and Operations
Sandra L. Drabik, J.D. ................................................................. Vice President and General Counsel
C. Vernon Snyder, M.M.E. ......................................................... Vice President for Institutional Advancement

Tyrone Bledsoe Sr., Ph.D., Special Assistant to the President for Diversity Affairs
Penny Poplin Gosetti, Ph.D., Executive Assistant to the President
Tobin J. Klinger, B.A., Interim Executive Director of Public Relations and Marketing
Ricky T. Walker, M.A., Senior Director of Affirmative Action

ACADEMIC DEANS

David S. Stern, Ph.D., Dean of Arts and Sciences
Thomas G. Gutteridge, Ph.D., Dean of Business Administration
Thomas J. Switzer, Ph.D., Dean of Education
Nagi G. Naganathan, Ph.D., Dean of Engineering
Jerome M. Sullivan, M.S., R.R.T., Dean of Health and Human Services
Phillip J. Closius, J.D., Dean of Law
Johnnie L. Early II, Ph.D., Dean of Pharmacy
Mary Jo Waldock, M.B.A., Interim Dean of University College
John D. Gaboury, Ph.D., Dean of University Libraries

Board of Trustees

Mr. Daniel J. Brennan, Chair
Mr. Richard B. Stansley Jr., Vice Chair
Ms. Joan Uhl Browne
Mr. C. William Fall
Mr. Kristopher L. Keating, Student Trustee

Mr. William C. Koester
Judge Richard B. McQuade Jr.
Mr. Donovan Nichols, Student Trustee
Mr. Robert C. Redmond
Ms. Olivia K. Summons
Mr. Hernan A. Vasquez

Trustees first were appointed by the Governor of Ohio when The University of Toledo became a state university effective July 1, 1967.
A Message from the President

Dear Students:

Thank you for choosing The University of Toledo. This catalog is your guide to the many programs and services we offer, and I recommend that you keep it handy and refer to it often.

As a large metropolitan research university, UT presents you with outstanding opportunities to learn and grow. I urge you to take advantage of as many of those opportunities as possible.

Volunteer with a local non-profit group. Try a service learning course. Join a club or organization on campus. Attend a play, concert or sporting event. Get to know your adviser and your professors by visiting them during office hours. Take part in student government. Participate with faculty in their research. The opportunities are endless.

On behalf of our faculty, staff, alumni and volunteers, let me extend a warm welcome to The University of Toledo family. We are glad to have you here, and we sincerely hope that your time with us will be time well spent.

Welcome!

Dan Johnson
President
# The University of Toledo

## Frequently Called Numbers

Dial the last 4 digits of numbers beginning with 530 if you are using a University phone.

<table>
<thead>
<tr>
<th>Campus Information</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bancroft &amp; Scott Park campuses</td>
<td>419.530.4636</td>
</tr>
<tr>
<td>SeaGate Campus</td>
<td>419.321.5140</td>
</tr>
<tr>
<td>Accessibility, Office of</td>
<td>530.4981</td>
</tr>
<tr>
<td>Accessibility, Office of, TDD</td>
<td>530.2612</td>
</tr>
<tr>
<td>Admissions, Undergraduate</td>
<td>530.8700</td>
</tr>
<tr>
<td>Admissions, Graduate</td>
<td>530.4723</td>
</tr>
<tr>
<td>Admissions, International Students</td>
<td>530.1211</td>
</tr>
<tr>
<td>Admissions, Law</td>
<td>530.4131</td>
</tr>
<tr>
<td>Affirmative Action</td>
<td>530.2508</td>
</tr>
<tr>
<td>American Language Institute</td>
<td>530.4702</td>
</tr>
<tr>
<td>Athletic Ticket Office (Savage Hall)</td>
<td>530.2239</td>
</tr>
<tr>
<td>Bookstore, Art Museum</td>
<td>530.8309</td>
</tr>
<tr>
<td>Bookstore, Bancroft Campus</td>
<td>530.2516</td>
</tr>
<tr>
<td>Bookstore, Scott Park</td>
<td>530.3305</td>
</tr>
<tr>
<td>Bursar, Office of the</td>
<td>530.5755</td>
</tr>
<tr>
<td>Career Services</td>
<td>530.4341</td>
</tr>
<tr>
<td>Commuter and Off-Campus Services</td>
<td>530.8521</td>
</tr>
<tr>
<td>Continuing Education, University College</td>
<td>321.5139</td>
</tr>
<tr>
<td>Counseling Center</td>
<td>530.2426</td>
</tr>
<tr>
<td>Eberly Center for Women</td>
<td>530.8570</td>
</tr>
<tr>
<td>Escort Service</td>
<td>530.4292</td>
</tr>
<tr>
<td>Finance Office (Cashier)</td>
<td>530.8731</td>
</tr>
<tr>
<td>Financial Aid, Office of</td>
<td>530.5800</td>
</tr>
<tr>
<td>Graduation Information</td>
<td>530.4824</td>
</tr>
<tr>
<td>Honors Program</td>
<td>530.6030</td>
</tr>
<tr>
<td>Interfaith Center</td>
<td>531.4198</td>
</tr>
<tr>
<td>International Student Services, Office of</td>
<td>530.4229</td>
</tr>
<tr>
<td>Library, Carlson (Bancroft Campus)</td>
<td>530.2323</td>
</tr>
<tr>
<td>Library (Learning Resource Center), Scott Park</td>
<td>530.3188</td>
</tr>
<tr>
<td>Learning Enhancement Center, Bancroft Campus</td>
<td>530.2206</td>
</tr>
<tr>
<td>Learning Enhancement Center, Scott Park Campus</td>
<td>530.3105</td>
</tr>
<tr>
<td>Multicultural Student Center</td>
<td>530.2261</td>
</tr>
<tr>
<td>Parking Services</td>
<td>530.5843</td>
</tr>
<tr>
<td>Registrar, Office of the</td>
<td>530.4824</td>
</tr>
<tr>
<td>Registration and Scheduling</td>
<td>530.4849</td>
</tr>
<tr>
<td>Residence Life (Housing), Office of</td>
<td>530.2941</td>
</tr>
</tbody>
</table>

| Rocket Card/ID Center                                   | 530.5842       |
| Savage Hall Box Office                                  | 530.4231       |
| Student Medical Center                                  | 530.3451       |
| Student Recreation Center                               | 530.3700       |
| Student Success Center                                  | 530.1250       |
| Testing Center, Bancroft Campus                         | 530.2011       |
| Testing Center, Scott Park Campus                       | 530.3269       |
| Transcripts                                             | 530.2704       |
| University Police                                       | 530.2600       |
| Veterans Affairs                                        | 530.4373       |
| Writing Center, Bancroft Campus                         | 530.4939       |
| Writing Lab, Scott Park Campus                          | 530.3105       |

## Colleges

<p>| Arts and Sciences, Student Services                     | 530.2671       |
| Business Administration, Student Services              | 530.2087       |
| Education, Student Services                            | 530.2495       |
| Engineering, Undergraduate Studies                     | 530.8040       |
| Graduate School                                         | 530.4723       |
| Health and Human Services, Student Services             | 530.5360       |
| Law                                                     | 530.2882       |
| Pharmacy                                                | 530.1904       |
| University College                                      | 530.3311       |</p>
<table>
<thead>
<tr>
<th>Academic Calendar</th>
</tr>
</thead>
</table>

**Fall Semester 2004**
- First Day of Classes: Monday, August 23
- Labor Day: Monday, September 6
- Fall Recess: Monday, October 11
- Veteran’s Day: Thursday, November 11
- Thanksgiving Recess: Monday, November 22
- Law Last Day of Classes: Thursday, December 2
- Law Final Examinations: Friday, December 3
- Last Day of Classes: Friday, December 10
- Law Commencement: Saturday, December 18
- Final Examinations Begin: Monday, December 13
- Final Examinations End: Saturday, December 18

**Fall Semester 2005**
- First Day of Classes: Monday, August 22
- Labor Day: Monday, September 5
- Fall Recess: Monday, October 11
- Veteran’s Day: Friday, November 11
- Thanksgiving Recess: Wednesday, November 24
- Law Last Day of Classes: Tuesday, November 25
- Law Final Examinations: Friday, December 2
- Last Day of Classes: Friday, December 9
- Law Commencement: Saturday, December 17
- Final Examinations Begin: Monday, December 12
- Final Examinations End: Friday, December 16

**Spring Semester 2005**
- First Day of Classes: Monday, January 10
- Martin Luther King Day: Monday, January 17
- Spring Recess: Friday, March 11
- Law Last Day of Classes: Friday, April 22
- Law Reading Period: Saturday, April 23
- Law Final Examinations: Monday, April 25
- Last Day of Classes: Friday, April 29
- Final Examinations Begin: Monday, May 2
- Final Examinations End: Friday, May 6
- Commencement: Saturday, May 8
- Law Commencement: Saturday, May 7

**Spring Semester 2006**
- First Day of Classes: Monday, January 9
- Martin Luther King Day: Monday, January 16
- Spring Recess: Monday, March 6
- Law Last Day of Classes: Friday, April 21
- Law Reading Period: Saturday, April 22
- Law Final Examinations: Monday, April 24
- Last Day of Classes: Tuesday, April 25
- Final Examinations Begin: Friday, May 5
- Final Examinations End: Friday, May 7
- Commencement: To be determined
- Law Commencement: To be determined

**Summer Semester 2005**
- First Day of Classes I, IV & Law: Monday, May 16
- Memorial Day: Monday, May 30
- First Day of Classes III: Monday, June 13
- Last Day of Classes I: Friday, June 24
- First Day of Classes II: Monday, June 27
- Independence Day: Monday, July 4
- Law Last Day of Classes: Thursday, July 14
- Law Final Examinations: Monday, July 18
- Last Day of Classes II, III & IV: Friday, July 22
- Summer Semester: Friday, August 5

**Summer Semester 2006**
- First Day of Classes I, IV & Law: Monday, May 15
- Memorial Day: Monday, May 29
- First Day of Classes III: Monday, June 12
- Last Day of Classes I: Friday, June 23
- First Day of Classes II: Monday, June 26
- Independence Day: Tuesday, July 4
- Law Last Day of Classes: Thursday, July 13
- Law Final Examinations: Monday, July 17
- Last Day of Classes II, III & IV: Friday July 21
- Summer Semester: Friday, August 4
The University of Toledo

Table of Contents

General Section ................................................................................................................................................. 1
Accreditation and Standards ............................................................................................................................. 3
Undergraduate Areas of Study .......................................................................................................................... 3
  Undergraduate Admission ............................................................................................................................. 5
  First Year – New Students ............................................................................................................................ 6
  Transfer Students ........................................................................................................................................ 8
  Undergraduate Admission for International Students ................................................................................ 10
  Special Admission Programs ....................................................................................................................... 11
Transfer Module ............................................................................................................................................... 13
Policy Determining Ohio Residency ............................................................................................................... 16
Fees and Financial Aid .................................................................................................................................. 17
Placement and College Credit ............................................................................................................................ 17
University Core Curriculum ............................................................................................................................. 19
General Academic Policies ............................................................................................................................... 22
Academic Support Offices ............................................................................................................................... 28
College of Arts and Sciences ............................................................................................................................. 31
College of Business Administration .................................................................................................................. 91
College of Education ....................................................................................................................................... 105
College of Engineering ................................................................................................................................. 129
College of Health and Human Services .......................................................................................................... 167
College of Pharmacy ...................................................................................................................................... 205
University College ......................................................................................................................................... 223
Graduate School .............................................................................................................................................. 233
  Graduate Areas of Study ............................................................................................................................... 233
  General Information ................................................................................................................................... 234
  College of Arts and Sciences ......................................................................................................................... 238
  College of Business Administration ................................................................................................................ 249
  College of Education ................................................................................................................................... 255
  College of Engineering ................................................................................................................................. 264
  College of Health and Human Services ......................................................................................................... 274
  College of Pharmacy ................................................................................................................................... 282
College of Law ................................................................................................................................................. 289
University Libraries ........................................................................................................................................ 299
Course Descriptions ........................................................................................................................................ 301
Index ................................................................................................................................................................. 513