

Five-Year Capital Outlay Plan FY 2020 - FY 2024

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# Ferris State University Five-Year Capital Outlay Plan FY 2020 – FY 2024

# **TABLE OF CONTENTS**

Ι.	Mission Statement	1
П.	Instructional Programming	1
Ш.	Staffing and Enrollment	4
IV.	Facility Assessments	6
V.	Implementation Plan	7

### FERRIS STATE UNIVERSITY Five-Year Capital Outlay Plan FY 2020 – FY 2024

#### I. Mission Statement

Ferris State University prepares students for successful careers, responsible citizenship, and lifelong learning. Through its many partnerships and its career-oriented, broad-based education, Ferris serves our rapidly changing global economy and society.

## II. Instructional Programming

a) Ferris' Academic Plan is provided in response to this item. The information can be found on Ferris' Academic Affairs website under Resources and then <u>Academic Affairs Strategic Plan</u>.

That plan describes academic program planning, including distance education, at the University. Ferris intends to pursue growth with our online graduate level programs, including a new Doctorate in Nursing Practice, which was approved by the Higher Learning Commission (HLC) on October 31, 2016 – and began August of 2017. As part of Governor Snyder's Marshall Plan, working school, business and industry partners, Ferris is developing a certificate in cloud computing and an Associate of Applied Science in Cloud Computing. Building on our work in Information Security and Intelligence, a Bachelor of Science in Project Management is also in development.

b) Unique characteristics of Ferris State University include its focus on career-oriented, technical and professional programming. With the merger of Kendall College of Art and Design, Ferris has both the largest colleges of design and technology in the region. Ferris also serves a statewide function to share expertise in the areas of career decision-making and workforce development. Ferris partners with twenty-three community colleges across Michigan and teaches in their college facilities to provide bachelor degrees to students who are place bound so they can continue their education without relocating to Big Rapids. These programs are of special assistance to working adults looking to increase career prospects or to transition into a new field.

Ferris offers programs from certificate and associate degree levels through the first professional and doctoral degrees. In addition to our extensive bachelor, graduate and professional programs, Ferris serves a community college function for its five-county area through participation in Federal Perkins programming, the State Tuition Incentive Program, as well as through curricular offerings.

#### c) Initiatives which may impact facilities usage:

#### Digital Media

Digital Media (DM) includes Ferris' Digital Animation and Game Design program, which is ranked among the top 20 programs in the country by the Princeton Review. DM also includes programs in Digital Media and Software Engineering, and Television and Digital Media Production. Alumni work in businesses, industry and virtual design studios, television stations, education institutions, and firms specializing in virtual, electronic and video representation. This is the age of electronic animation, video and virtual reality. This program brings together studies in digital video, digital animation and game design, and software engineering. The exponential growth of YouTube and other online video sites highlights the relevance of Ferris' Digital Media program.

#### Virtual Learning

Ferris offers charter schools, teacher education, and a doctorate in community college leadership. There is a strong need to embed virtual learning within each of these fields in both the delivery and preparation. This will require a significant update to education facilities and development of new classrooms and learning laboratories which enable and take advantage of this technology.

Ferris has a strong and growing on-line presence. Currently we offer 35 degrees and certificates available entirely on-line. These degrees, along with the flexibility on-line courses provide, give students at multiple campuses with busy schedules, work responsibilities, and/or family commitments, the opportunity of an education. We are able to extend educational opportunities to a larger audience.

#### Career and Technical Education

For many years Ferris State University has been the State leader for Career and Technical Education programs, hosting many of these resources in Michigan. There is a strong need to enhance this educational component, connecting it with technical education programs at the community college, tech center and secondary levels. Within Michigan there is a strong need for leadership to promote this kind of education to help fill existing and future job opportunities with qualified workers. This aligns with the current State initiatives to promote technical and apprenticeship education in the State.

 Information Security and Intelligence (ISI)
 The Information Security and Intelligence program (ISI), which is annually ranked among the top 25 programs in the nation, is considered the premier program in the State and is one of only six programs in the country to be designated as a Center of Excellence by the National Security Agency in all information assurance areas. Additionally, the program holds the National Center for Digital Forensic Academic Excellence designation from the Department of Defense Cyber Command Center (DC3) and the Air Force Office of Special Investigations. ISI is the first university program in the country to receive DC3 and Air Force Office of Special Investigations Center designation as a National Center of Digital Forensics Academic Excellence. As such, Ferris' ISI program facilitates national-level security expertise in business, industry and government operations. Cyber security and data analytics are frequently cited among the fastest-growing career fields.

- Master of Science in Social Work
   Ferris has created a Master's Degree in Social Work and is working with its fifth cohort of students. Additional space is needed for classes and faculty offices.
- Scientific and Pharmaceutical Research
  Ferris is a national leader in providing career training to our students in a
  variety of fields. Students in the sciences and pharmacy have impactful
  research experiences with faculty solving real-world problems (e.g.,
  microbial resistance). Faculty and students have been awarded National
  Institutes of Health (NIH) grants and National Science Foundation (NSF)
  grants to fund their research. The teacher-scholar model has been
  adopted in the College of Pharmacy with increased research efforts in
  several programs and colleges. There are three major needs to continue
  this work:
  - emergency power back-up for the Science Building and the Hagerman Pharmacy building laboratories as well as the animal care facilities
  - alarm systems for the Science Lab walk-in refrigeration unit and the sub-zero refrigeration unit renovation of laboratory spaces in the Science and Pharmacy Buildings to accommodate cutting-edge interdisciplinary research with students
  - 3. modernization of research laboratory facilities across campus with emphasis in colleges with substantial research efforts
- Development of University-Wide Initiatives
   As part of the University's regional reaccreditation visit by the Higher Learning Commission during the fall of 2020, the colleges and other academic affairs units developed and are implementing quality initiative projects to address learning, retention, and the learning environment. The primary goal of the quality initiative is to create an

Ferris State University – Capital Outlay Five-Year Master Plan October 2018

increasingly effective Ferris environment that is focused on holistic student development, innovative pedagogy, and commitment to

students' success in all areas of literacy in support of their capabilities to be effective. These in turn will lead to more learning, higher completion, and higher satisfaction with the learning environment. At the center of these efforts is the Center for Academic Literacies that has been developed in the University's FLITE library. These projects are underway, and results will be reported to HLC in the spring of 2020, in advance of the reaffirmation of accreditation visit the following fall.

- d) Economic development impact of current/future programs:
  - As a career-oriented University, Ferris is a major driver of the economy in West Michigan and throughout the State. Each of the technical programs previously mentioned represents areas of present and future economic growth. Ferris' hands-on engineering programs—architecture and facilities management; automotive technology; CAD drafting and tool design; computer networks and systems; construction management; electrical\electronics technology; heating, ventilation, air conditioning and refrigeration; heavy equipment technology; industrial technology and management; manufacturing; mechanical technology; plastics; product design technology; quality technology; rubber engineering technology; surveying; and welding—provide technical fields for new professionals, but also provide retraining and upgrades for current professionals.
  - Ferris' educational leadership in charter schools, teacher preparation, and a doctorate in community college leadership continues to provide the resources needed to develop the educated workforce for a knowledgebased, technological economy.
  - Programs in health professions provide numerous opportunities for employment and support the growing field of healthcare. In the last three years, the University has started master's level programs in Health Administration Leadership and Public Health. In addition to professional doctoral programs in Pharmacy and Optometry, Ferris launched a new Doctorate in Nursing Practice in August 2017.
  - The Ferris State University process of Academic Program review and new academic program development is a national leader in best practice. Ferris faculty are committed to developing new programs to support developing trends and needs. The nimbleness of these academic initiatives created more than 25 new academic programs in the past five years. At the same time, an equal or greater number of academic programs have been eliminated.

#### III. Staffing and Enrollment

Ferris State University – Capital Outlay Five-Year Master Plan October 2018

a) Ferris' academic mission - to provide hands-on career oriented instruction that meets the business and industry needs of our State - continues to attract

students to our institution. This fall (2018), the University's "first time in any college" (FTIAC), grew by over three percent due to the attractiveness of our programs. While recent enrollment at the University reflects the impact of declining high school graduates, we are confident that our programs will continue to attract new and transfer students.

Ferris continues to attract students to the Big Rapids campus for the hands-on, career-focused instruction that requires specialized equipment and face-to-face instruction. The University provides bachelor degree completion to place-bound students throughout the State through strong partnerships with community colleges, offering upper level program opportunities to students in the communities where they live. In this we utilize the facilities of the community college and ladder a bachelor's degree on top of the associate degrees offered at the site. These partnerships continue to expand. At the same time, Ferris continues to increase its online offerings to provide an alternative instruction opportunity to students where this type of delivery method is favorable. Specific enrollment information by program and site can be found in our online Fact Books. (Go to Ferris' home page and type in Fact Books.)

b) Since 2015 Ferris has experienced a decline in enrollment due to the decrease of Michigan high school graduates.

# 14,715 13,798 13,250 2015 2016 2017 2018

Fall Headcount Enrollment

c) Ferris projects between a two and four percent decline in enrollment over the next five years due to the impact of declining Michigan high school graduates.

Ferris State University – Capital Outlay Five-Year Master Plan October 2018

We are preparing for this by implementing various recruiting initiatives such as: expanding our online offerings, increasing our athletic rosters, developing an eSports program, expanding our relationships with community colleges, a

new branding and marketing campaign, and creating a winter-mester (whereby students can take classes between fall and spring semester) - just to name a few.

- d) Depending upon the academic program area, student-to-faculty ratios will vary based upon whether the course is a hands-on, equipment dependent laboratory, or a general lecture class. The 2017-2018 University student-to-faculty ratio of 16 to 1 indicates that classroom space has been, and continues to be, a major planning factor for the University. This is due to our unique programming mix requiring small class sizes dictated by the equipment-intensive nature of many of our programs. Our total University student-to-employee ratio has remained a ratio of approximately seven to one over the last few years again, referring to Ferris' Fact books for detailed information.
- e) Staffing levels will decline as a result of enrollment change. Our operating discipline is to reduce budgets so that expenses and revenues are balanced.
- f) Current average class size for fall of 2018 is 16 students per class. Again, this small class size reflects the University's mission of providing hands-on education.

#### IV. Facility Assessments

- a) Ferris completed an update to the facility Master Plan in May 2015. The master plan can be found on Ferris' <u>Strategic Planning</u> page, and an updated Facility Condition Assessment Report was completed in May 2018 and may be found on the Physical Plant's page under <u>Planning Documents</u>.
- b) Ferris' classrooms are highly utilized. The unique programming requirements of our curricula make cross-utilization of some facilities challenging. Many hands-on laboratories (automotive, welding, HVAC, etc.) are specifically designed with the special equipment these disciplines require.
- c) The University believes all special laboratory and specialty classrooms conform to federal/industry standards and hired a Director of Laboratory Safety to ensure safe practices and compliance in our classroom and research laboratories.
- d) The functionality of existing structures is addressed in the Master Plan document.

Ferris State University – Capital Outlay Five-Year Master Plan October 2018

- e) The replacement value of existing facilities is detailed in the Current Facilities Property Value report. A copy of this report is available on Ferris' website by going to the transparency reporting button located near the bottom of Ferris'
  - homepage, clicking information located on the left, and going to <u>Current Facilities Property Value 2017/2018.</u>
- f) The University completed a comprehensive assessment of its underground sanitation and waste water system during 2016 as part of the Michigan DEQ SAW Grant Program. A copy of this report is available upon request.
- g) In most cases the most up-to-date information we have on facility infrastructure is detailed in the 2005 Utility Infrastructure Study which is available through hard copy in multiple three-ring binders. Some of this information is also available on the Physical Plant's GIS System.
- h) Existing utilities and infrastructure systems are sufficient and adequate to support the five-year Master Plan.
- i) Ferris approved an Energy and Water Use Policy June 2012. The policy can be found on Ferris' website under the <u>Business Policies>Facilities</u> page. As part of our 2018-2020 capital renewal and deferred maintenance plan, \$75,000 was allocated for energy related improvements.
- j) The Master Plan document also provides detail as to land use and capacity.
- k) Detail on the bonded indebtedness of our facilities is included in the financial statements.

#### V. Implementation Plan

The Master Plan document comments on specific needs of the various plant facilities.

a) Ferris' top priority for capital projects is summarized below:

# Priority One: Center for Virtual Learning

- b) The backlog of current deferred maintenance projects is included in the 2018 campus Facility Condition Assessment report. The report is located on Ferris' website on the Physical Plant's page under <u>Planning Documents</u>. The University maintains a comprehensive facilities assessment database that identifies the deferred maintenance costs for each building.
- c) Ferris continues to expect significant return on planned capital expenditures.

Ferris State University – Capital Outlay Five-Year Master Plan October 2018

- d) Ferris continues to upgrade its technology infrastructure. This includes conventional network infrastructure, wireless capacity, and capacity for additional online learning.
- e) Ferris currently offers 11 bachelor's, five master's, one doctorate, 16 undergraduate and two graduate certificates online. For fall 2018, 944 students were enrolled in programs that are presented entirely online. Additionally, many courses at Ferris are presented in a hybrid format, which requires some attendance on campus, but where the majority of the work is completed online. Ferris plans to accommodate growth in online offerings which will continue to evolve. The proposed Virtual Learning Center is a critical component of this on-line future. However, in doing so, we also recognize that hands-on instruction in some career-oriented academic disciplines is not suited to distance learning technologies at this time.
- f) Ferris major maintenance items in excess of \$1 million include (but are not limited to):
  - Automotive Technology Center. This facility was constructed in 1956 and requires a major renovation to keep pace with the electrical and digital nature of the profession. The University funded and completed Phase 1 of a \$1.5 million investment two years ago for South Wing improvements to faculty offices, classroom enhancements, and a modern fuels lab.
  - Pharmacy building renovation with Phase 1 to begin January 2019 and a second phase, supported by a capital campaign, planned for approximately 2021.
  - Ferris is home to the first Professional Golf Management program in the country (now called PGA Golf Management) and is still one of the only 18 accredited such programs in the country. The University is constructing a new \$3.5 million high-tech PGA Learning Center at Ferris' Katke Golf Course for this academic program. The goal is to complete construction early 2019.
  - Fundraising is underway for a \$6.5 million addition to and partial renovation of our Sports Complex. Our strength and conditioning space in the Sports Complex is undersized and underequipped, and in many cases is less than our student athletes used in their high schools. This project also includes an expanded women's volleyball arena and renovation to outdated locker room facilities.
- g) Ferris recently completed a second five-year capital renewal and deferred maintenance plan with \$1,800,000 annual general fund support and \$1,200,000 annual housing and dining funds, for a combined total over five years of \$15,000,000.