



EVALUATION AND APPRAISAL REPORT



EVALUATION & APPRAISAL REPORT (EAR)

An evaluation of the 2015-25 Campus Master Plan Update

2020-30 CAMPUS MASTER PLAN UPDATE

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EVALUATION & APPRAISAL REPORT

EAR INTRODUCTION

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NARRATIVE

The EVALUATION & APPRAISAL REPORT (EAR) is a review and assessment of the 2015-2025 Campus Master Plan (CMP), as adopted by the UCF Board of Trustees on November 20, 2014.

Board of Governors Chapter 21, Campus Master Plans, Section 21.202) requires that the CMP contain a section identifying, monitoring, and evaluating procedures to be followed in updating the CMP every five years. Therefore, this EAR is incorporated into the final 2020-30 Campus Master Plan Update to:

- List which goals, objectives, and policies have been successfully reached.
- Identify the need for new or modified goals, objectives, or policies needed to correct unanticipated and unforeseen problems and opportunities that have occurred since adoption of the campus master plan.
- Identify proposed and anticipated plan amendments necessary to address identified problems and opportunities.

MONITORING & EVALUATION

Florida Statute 1013.30 requires that a Campus Master Plan (CMP) address eight (8) Elements, and allows for additional (optional) elements to be included. The 2015-25 Campus Master Plan (CMP) included nine (9) optional elements.

This evaluation is divided into three (3) Sections: Required Elements, Retained Optional Elements, and Retired Optional Elements.

Section 1: REQUIRED ELEMENTS

This section will assess the eight (8) Elements required by Florida Statute 1013.30 as identified in the 2015-25 CMP.

- 2.4 Future Land Use (now Element 2.0 in 2020-30 CMP)
- 2.7 Housing (now Element 3.0 in 2020-30 CMP)
- 2.8 Recreation and Open Space (now part of Element 4.0 in 2020-30 CMP)
- 2.9 General Infrastructure (now part of Element 5.0 in 2020-30 CMP)
- 2.11 Transportation (now Element 6.0 in 2020-30 CMP)
- 2.12 Intergovernmental Coordination (now Element 7.0 in 2020-30 CMP)
- 2.13 Conservation (now Element 9.0 in 2020-30 CMP)
- 2.14 Capital Improvements (now Element 10.0 in 2020-30 CMP)

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Section 2: RETAINED OPTIONAL ELEMENTS

This section will assess the five (5) optional elements retained in the 2020-30 CMP:

2.3 Urban Design (retained in the 2020-30 CMP as part of Element 2.0)

2.5 Academic Facilities (retained in the 2020-30 CMP as part of Element 11.0)

2.6 Support Facilities (retained in the 2020-30 CMP as part of Element 11.0)

2.10 Utilities (retained in the 2020-30 CMP as part of Element 5.0)

2.17 Facilities Maintenance (retained in the 2020-30 CMP as Element 12.0)

Section 3: RETIRED OPTIONAL ELEMENTS

This section will assess the four (4) optional elements that UCF has retired:

2.1 Academic Mission

2.2 Academic Program

2.15 Architectural Design Guidelines

2.16 Landscape Design Guidelines

FORMAT

The Goals and Objectives from the 2015-25 CMP will be listed and evaluated as:

- **ONGOING:** UCF will continue to address these Goals, Objectives, or Policies.
- **MET:** These Goals, Objectives, or Policies have been successfully reached.
- **UNMET:** These Goals, Objectives, or Policies were not reached but the University will continue to address them.
- **NOT IMPLEMENTED:** These are no longer UCF Goals, Objectives, or Policies.

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Section 1 – REQUIRED ELEMENTS

Section 1 – REQUIRED ELEMENTS

Section 1 will evaluate the eight (8) Required Elements from the 2015-25 CMP, reviewing the Elements' Goals and Objectives, and reporting the status of the Objectives. The Elements include:

- 2.4 FUTURE LAND USE
- 2.7 HOUSING
- 2.8 RECREATION AND OPEN SPACE
- 2.9 GENERAL INFRASTRUCTURE
- 2.11 TRANSPORTATION
- 2.12 INTERGOVERNMENTAL COORDINATION
- 2.13 CONSERVATION
- 2.14 CAPITAL IMPROVEMENTS

2.4 Future Land Use

EAR CONTRIBUTORS

Bill Martin, Facilities Planning and Construction
Susan Hutson, Facilities Planning and Construction

NARRATIVE

The Future Land Use Element addressed UCF's long-range vision for land use on campus, in coordination with future land use plans of the host and affected local governments.

GOAL 1: Create developmental patterns that direct future growth to appropriate areas on campus, in a manner that promotes the educational mission of the University, the protection of environmentally sensitive areas, and compatibility with the surrounding community.

OBJECTIVE 1.0: To promote future land use development on campus that provides for a full range of land uses and intensities of use consistent with the Goals, Objectives and Policies of the UCF Campus Master Plan, the host local government's master plan, and the affected local governments' master plans, in accordance with the following policies

ONGOING

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OBJECTIVE 1.1: To protect natural resources, including surface waters and wetlands.

ONGOING

OBJECTIVE 1.2: To minimize land use compatibility problems between the University and the host community.

ONGOING

OBJECTIVE 1.3: To correct existing land use compatibility problems on the University campus.

ONGOING – Many Policies

UNMET POLICY 1.0.1: Parking Use: “the development of the ‘intercept’ parking concept is promoted”

- UCF has not implemented the intercept parking concept; no garages have been built at the campus periphery. However, this policy will carry forward to the 2020-30 CMP.

UNMET Policy 1.3.3: “Surface parking areas shall be located outside of the 1,200-foot radius...”

- Surface parking within the Academic Core remains a land use compatibility issue. UCF will strive to relocate surface parking from the Academic Core into garages outside the Core, to free up land for academic facilities, research facilities, and open spaces.

UNMET POLICY 1.3.7: “... future parking garages shall be placed at strategic points near campus entrances.”

- See Policy 1.0.1 regarding intercept garages.
- Parking Garage C was expanded; but no new garages have been built.
- A future intercept garage has been listed on the new Schedule of Capital Projects in the 2020-30 CMP, and others are anticipated.

OBJECTIVE 1.4: To coordinate future land uses with the availability of facilities and services.

ONGOING

OBJECTIVE 1.5: To ensure the availability of suitable land on campus for utility facilities required to support future on-campus development.

ONGOING

OBJECTIVE 1.6: To minimize off-campus constraints which limit future development on campus (i.e., traffic, utilities) and to minimize on-campus

ONGOING

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Section 1 – REQUIRED ELEMENTS

conflicts with land uses within the context area.

OBJECTIVE 1.7: To coordinate future land uses with the appropriate topography and soil conditions.

ONGOING

OBJECTIVE 1.8: To ensure that future campus development projects are consistent with regulations governing development in areas where historically or archaeologically significant resources may be present.

ONGOING

- Neither historically- nor archaeologically-significant resources have been encountered on the Main Campus, but the CMP will continue to include this objective as a precaution.

GOAL 2: Maintain a commitment to the protection of campus ecosystems and lands of significant environmental importance and to ensure that these resources are protected for the benefit of present and future generations, while accommodating the continued development and expansion of the man-made environment of the campus.

OBJECTIVE 2.1: To designate environmentally sensitive lands for protection based on state and regional criteria.

ONGOING

2.7 Housing

EAR CONTRIBUTORS

April Konvalinka, Housing and Residence Life
Peter Mitchell, Housing and Residence Life

NARRATIVE

UCF Housing continues to work to meet UCF’s housing demand, and will continue to seek funding to resolve the housing deficit that is acknowledged in the 2015-25 CMP and the 2020-30 CMP.

GOAL 1: Ensure the provision of public and private housing facilities on campus and within the host community are adequate to meet the needs of the projected University enrollment during the planning period.

OBJECTIVE 1.1: To ensure the availability of affordable housing units and support facilities on campus and through University affiliated housing off-campus that will meet the projected need for student housing.

ONGOING – Many Policies

UNMET Policy 1.1.1: UCF has not provided enough beds to house 80% of FTIC students and 50% of retained 2nd year undergrads.

- Although no additional beds were added to the Main Campus , some progress toward the goal has been made:

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Section 1 – REQUIRED ELEMENTS

OBJECTIVE 1.2: To ensure the availability of off-campus housing and support facilities within close proximity to the campus, which will meet the projected student enrollment.

OBJECTIVE 1.3: To prevent sub-standard housing and to provide resources for remodeling to an acceptable condition for student use.

- In 2018, the Board of Trustees approved a minor amendment to the 2015-25 CMP to add the future “Dining, Housing, and Residence Life...Facility.” When realized, the project could add approximately 600 beds on the Main Campus.
- A small parcel of land has been set aside north of Greek Park for additional low-rise Greek housing or other houses. When realized, the project could add as many as 200 beds on the Main Campus.
- The addition of 640 beds on the UCF Downtown Campus, in Fall 2019, accommodates UCF and Valencia students taking classes downtown. Students with courses on Main could elect to choose to live downtown; however, the intent was for students taking classes downtown.
- The goal in the 2020-30 CMP has changed from 80% to 75% of FTIC, and remains at 50% of 2nd year undergrads.

ONGOING

- When on-campus housing facilities have reached full capacity, UCF refers students to off-campus housing. Many private apartment complexes house UCF students within the Context Area. In support of off-campus housing, the UCF Shuttle System currently offers regular routes between UCF and many off-campus student apartment complexes.

ONGOING

- UCF has no sub-standard housing on-campus.

2.8 Recreation and Open Space

EAR CONTRIBUTORS

David Hansen, UCF Athletics Association
 James Wilkening, Recreation and Wellness Center
 Jennifer Elliott, Landscape and Natural Resources

NARRATIVE

In an ongoing effort to satisfy existing and future demand, enhancements or additions to recreation, intercollegiate athletic facilities, educational laboratories, or open space areas will be listed on the Schedule of Capital Projects (SCP) in the 2020-30 CMP.

GOAL 1: Provide a variety of safe, efficient, and enjoyable on-campus recreation and intercollegiate athletics facilities, educational laboratories, and open space areas which promote the health, welfare and campus aesthetic ambience for faculty, staff, students, and visitors.

OBJECTIVE 1.1: To pursue a variety of public and private

ONGOING

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Section 1 – REQUIRED ELEMENTS

funding sources and programs to ensure the development and availability of recreational facilities, championship caliber intercollegiate athletics, and educational laboratories for campus students and other user groups.

OBJECTIVE 1.2: To pursue a variety of continuing in-house planning and facility development programs to ensure that high quality recreation, intercollegiate athletic facilities, educational laboratories, and open space areas are adequately and efficiently provided.

OBJECTIVE 1.3: To promote unrestricted or managed public access to all campus recreation and athletics facilities or open space areas to the maximum extent feasible.

OBJECTIVE 1.4: To protect and enhance present campus open spaces.

ONGOING – Many Policies

UNMET POLICY 1.2.5: UCF has not provided sufficient “improvements to recreation...facilities in order to correct existing deficiencies and meet future demands.”

- The current quantity of Activity-Based Recreation Space does not meet NIRSA¹ level-of service guidelines for the existing student population or future demand.

ONGOING

ONGOING

2.9 General Infrastructure

EAR CONTRIBUTORS

Curtis Wade, Utilities and Energy Services
Amanda Lindsay, Landscape and Natural Resources

NARRATIVE

The University is dedicated to providing mission-critical services in support of the University mission, and is mindful of future load growth as the campus grows. The Campus Master Plan addresses the statutory requirements of storm water, sanitary sewer, solid waste, and potable water, and now also includes chilled water, electrical power, natural gas, and telecommunications. Since the last CMP update, the University continues to:

- Successfully produce and provide quality potable water to the campus with reliable backup sources, as evidenced in the Consumer Confidence Report, the annual water quality report.

¹ National Intramural Recreational Sports Association (NIRSA)

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- Promote and implement concurrency management systems for utilities required for development permits in the 2020-2030 CMP update. The University has also added several policies and procedures to adequately expand campus distribution, transmission, and generation, with a concentrated effort on maintaining reserve capacity in all University-owned and -leased utility systems.
- Develop high performance building standards that reduce the E&G portfolio’s water consumption by as much as 20-35% below a baseline building for all new construction.
- Emphasize water conservation and efficiency measures to ensure that the University’s consumptive use permit capacity allowed by the St. Johns River Water Management District (SJRWMD) is not exceeded.
- Modify storm water permitting and capacities as needed with attention to water-borne pollutants. Implement storm water quality and quantity control through best management practices prescribed by Leadership in Energy and Environmental Design (LEED) requirements.
- Update sanitary collection systems with additional backup generators and phase out legacy supervisory control and data acquisition devices, replacing them with new cellular and network technology for alarm management and response.
- Evaluate critical infrastructure replacements and improvements to mitigate operational, technical, and financial risks through capital renewal prioritization.

STORMWATER SUB-ELEMENT

GOAL 1: Provide an on-site storm water management system which, to the extent possible, provides for adequate system capacity to protect campus populations and facilities, while remaining sensitive to the natural functions and environmental attributes of the campus' native plant and animal communities.

OBJECTIVE 1.1: To correct existing storm water permitting deficiencies, if any, by modifying the existing SJRWMD stormwater master permit.

ONGOING

- There are no storm water permitting deficiencies.

OBJECTIVE 1.2: To coordinate future campus development with the provision of adequate storm water management system capacity.

ONGOING

OBJECTIVE 1.3: Through the year 2025, UCF shall protect natural drainage system functions by (1)

ONGOING

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generally prohibiting development within the campus' existing jurisdictional wetland areas, (2) by maintaining a common pre-post development rate and volume of stormwater discharge for newly developed areas and, (3) by maintaining or reestablishing normal wetland hydro-period elevations.

OBJECTIVE 1.4: To improve the existing SJRWMD permitted stormwater management system when possible and funding is available.

ONGOING

POTABLE WATER SUB-ELEMENT

GOAL 2: Continue to produce and provide quality potable water to the campus with reliable backup sources.

OBJECTIVE 2.1: To ensure that adequate potable water supply and distribution piping is available for both new and re-developed facilities.

ONGOING

- As UCF approaches its CUP capacity, as limited by SJRWMD, capital investments into water conservation and efficiency will be paramount prior to adding any new development. Capital considerations should include fixture retrofits, replacements, reclaimed toilet-water flushing, and converting process water use from potable sources to reclaimed water where feasible.

OBJECTIVE 2.2: To meet adopted levels of service for potable water system fire flow and consumptive capacity to accommodate the proposed demand.

ONGOING

- UCF has secured an emergency water supply from Orange County for fire suppression needs. As regional water sources become scarcer and more regulated, the University will need to continue to work with host municipal water suppliers and the SJRWMD to monitor capacity.

OBJECTIVE 2.3: To maintain the current quality and quantity of raw water available in the campus' potable water well field.

ONGOING

- UCF has engaged in a Salt Tracer Study with FDEP (2019) to help correlate the water age in distribution supply with water quality data specific to chorine decay, total trihalomethanes and haloacetic acid formation to improve finished water quality and remain below FDEP's maximum containment levels.

There was no GOAL 3 in the General Infrastructure Element in the 2015-25 CMP.

SOLID WASTE SUB-ELEMENT

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GOAL 4: Base future campus development on the provision of a solid waste on-campus collection and off-campus disposal system which adequately serves the future campus population needs, and to the maximum extent feasible, protects the function and quality of the surrounding natural environment.

OBJECTIVE 4.1: To ensure that future development on the UCF campus shall occur based on a finding of adequate solid waste collection and disposal capacity to accommodate the future demand, which may call for new systems to be evaluated and installed if necessary such as to accommodate a composting system.

ONGOING

- UCF modified the 1999 Exclusive Bulk Agreement with Seminole County in 2018, and now has the ability to purchase an additional 700,000 GPD of wastewater capacity at Seminole County-Iron Bridge until 2040.

SANITARY SEWER SUB-ELEMENT

GOAL 5: Ensure that the future development of UCF shall be based on the current configuration of a combination of gravity and forced main sewer system that adequately serves the current and future campus population.

OBJECTIVE 5.1: To maintain the University's current sewer system and upgrade the mechanical and electrical components as needed and as funds are available.

ONGOING

- UCF is currently adding new supervisory control and acquisition data at all major lift stations, as funding becomes available, to provide real-time monitoring and alarming. Portable generators have been purchased in the event of power interruption, and long-term planning should yield permanent installations at all major sanitary sewer collection points.

2.11 Transportation

EAR CONTRIBUTORS

Louann Huynh, Parking and Transportation Services
Krishna Singh, Parking and Transportation Services
Demond Hazley, VHB Engineering

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Section 1 – REQUIRED ELEMENTS

NARRATIVE

Since the 2015-25 CMP, the University has enhanced its multi-modal transportation network, promoted efficient utilization of the campus roadway system, and encouraged shared transportation practices by:

- Expanding transit services with routes that accommodate 22 student apartment complexes, and include service to the Health Sciences campus, UCF Downtown, and the Rosen College of Hospitality Management.
- Constructing a transit center by the newly-built Research I building to support 4 routes and 8 shuttles.
- Providing structurally-secure parking facilities and lots for constituents, and proactively maintaining these structures to excellent safety standards.
- Completing the expansion of Garage C by adding 600 spaces, expanding its total capacity to 1,852 spaces.
- Promoting alternative accessibility and mobility practices such as vehicle-sharing, intra-campus transit systems, and new parking industry technologies; contributing to the University’s multi-modal transportation network.

GOAL 1: To plan for future motorized and non-motorized traffic circulation systems to ensure the provision of adequate transit, circulation, and parking facilities to meet future transportation needs.

OBJECTIVE 1.1: To inventory annually and report parking demand, traffic demand, and traffic operating conditions.

ONGOING

- The University collects data on parking capacities and usage annually; solicits frequent rider feedback; and regularly markets its shuttle transportation services to students to increase ridership. Through increased ridership, parking demand will decrease, reducing single occupancy vehicles and reducing UCF’s carbon footprint.

OBJECTIVE 1.2: To provide safe, adequate, accessible, and effective campus parking facilities.

ONGOING

- The University is committed to maintaining safe and accessible parking facilities. Similar to Objective 1.1, the University monitors parking capacities to maintain adequate student-parking ratios and to determine if additional parking is needed.

GOAL 2: To create logical patterns of pedestrian and non-vehicular circulation systems which enhance the overall urban and social-academic quality of the campus.

OBJECTIVE 2.1: To continue to provide adequate on-campus pedestrian and non-vehicular circulation systems designed to meet the current

ONGOING

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and future needs of the University.

OBJECTIVE 2.2: To annually review future pedestrian and non-vehicular circulation facilities for consistency with the Campus Safety Plan.

UCF does not have a comprehensive Campus Safety Plan; however, the 2020-30 Campus Master Plan includes a new PUBLIC SAFETY element.

OBJECTIVE 2.3: To review annually the need for additional lighting along pedestrian and non-vehicular circulation routes consistent with the recommendations contained within the Campus Safety Plan.

UCF does not have a comprehensive Campus Safety Plan; however, the 2020-30 Campus Master Plan includes a new PUBLIC SAFETY element.

GOAL 3: To develop a financially feasible multi-modal transportation system that integrates services provided by the public transit system (e.g., the Central Florida Regional Transit Authority, a.k.a. LYNX) and the private transit system, UCF Shuttle.

OBJECTIVE 3.1: To encourage the use of alternative modes of transportation and reduce dependence on the personal automobile.

ONGOING

- The University’s private transit system continues to grow as service is expanding to support the UCF Downtown Campus. The transit system is consistently being evaluated and monitored for effective usage.

The University has also established a partnership with Lynx to provide complimentary transportation to students, faculty, and staff within the Central Florida Region.

OBJECTIVE 3.2: To continue to improve future mobility options for UCF faculty, staff, students, and visitors by improving linkages between modes of travel.

ONGOING

- The University continues to improve its transit service, with ten (10) routes added since the 2015-25 CMP.
- Currently there are a total of twenty (20) routes:
 - 15 Routes serve student apartment complexes within a one-mile radius;
 - Three (3) routes serve Health Sciences, Rosen, and UCF Downtown campuses;
 - One (1) route provides transportation for on-campus residents to a local supermarket; and
 - One (1) route serves intra-campus transportation.

The data from Fall 2018 showed an average daily off-campus shuttle ridership of 15,659, compared to 10,311 students in Spring 2009.

OBJECTIVE 3.3: To continue to facilitate safe and efficient multi-modal access to, from, and within the Campus, with

ONGOING

- Vehicle sharing, park-and-ride, bike-sharing, pedestrian and bicycle facilities, and the UCF Shuttle all are components of

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an emphasis on maintaining traffic flow while minimizing conflicts.

OBJECTIVE 3.4: To implement measures to improve transit service to, from, and within the campus.

UCF’s robust multi-modal transportation plan. These methods help reduce parking demand on campus.

ONGOING

- The student shuttles are outfitted with GPS tracking that allows riders to see the location of all shuttles, and estimated times of arrival (ETA, using a smartphone application.

GOAL 4: To provide adequate access (vehicular and transit) to the Campus, while continuing to coordinate required transportation improvements with local communities and appropriate planning agencies, as detailed in the Intergovernmental Coordination Element.

OBJECTIVE 4.1: To ensure the continued coordination of the University’s transportation system improvements with the master plans and transportation improvement plans of the host local government, affected local governments, MetroPlan Orlando (the local Metropolitan Planning Organization), and the Florida Department of Transportation (FDOT).

ONGOING

OBJECTIVE 4.2: To continue to coordinate pedestrian and non-vehicular circulation systems with those developed by the host local government and affected local governments by reviewing their local comprehensive plans, bicycle plans, or pedestrian circulation plans, and meeting with local governments, as necessary.

ONGOING

2.12 Intergovernmental Coordination

EAR CONTRIBUTOR

Fred Kittinger, Government Relations

NARRATIVE

UCF has been in regular communication with local area governments and regional agencies since the 2015-25 CMP.

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Section 1 – REQUIRED ELEMENTS

UCF and Orange County have had ongoing communications and formal discussions on a host of shared interests, with particular emphasis on transportation and pedestrian safety.

Jointly, a Campus Development Agreement (CDA) was established with strong commitment to developing and implementing a pedestrian safety plan. The CDA includes numerous planning, design, and capital actions to significantly increase safety for those traveling in the main campus area, especially pedestrians and cyclists. Initial elements are already in place; the larger capital improvements are in design phase with construction to begin next year.

GOAL 1: Achieve the goals, objectives, and policies of the UCF Campus Master Plan through the use and promotion of intergovernmental coordination with local, regional, state, and federal government entities.

OBJECTIVE 1.1: To promote land use compatibility between the University and the host local government through the coordination of the UCF Campus Master Plan with the comprehensive master plans of the host community.

ONGOING

OBJECTIVE 1.2: To establish administrative procedures and coordination mechanisms for the reciprocal review of campus and host community development plans.

A CDA, requiring Partnership Projects, was reached between UCF and Orange County in 2016.

- ONGOING – Some Pedestrian Safety projects are currently being implemented or are in the design phase, with financial commitment from both Orange County and UCF.
- MET – The Campus Wayfinding Signage requirement has been met.
- ONGOING – Other Pedestrian Safety Partnership projects are listed on the 10-year Schedule of Capital Projects (SCP) in the 2020-30 Campus Master Plan.
- UNMET – Some Partnership projects are currently unmet due to a lack of funding after the dissolution of the State Concurrency Trust Fund.

OBJECTIVE 1.3: To assess and mitigate the impacts of on-campus development on the surrounding community, host and affected local governments, and service providers.

ONGOING

OBJECTIVE 1.4: To use University facilities and resources as shelters and for

ONGOING

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the staging of emergency services for an emergency event.

OBJECTIVE 1.5: To ensure the provision of adequate public services and facilities necessary to support development on campus and to meet the future needs of the University.

OBJECTIVE 1.6: To ensure the protection of natural, historical and archaeologically significant resources from the adverse impacts of development on campus.

UNMET Policy 1.4.1 regarding “activation and operation of emergency shelters on campus to house on-campus and near-campus faculty staff and students.”

- As UCF has no buildings hardened for hurricane shelters, this objective has been rewritten in the 2020-30 CMP to read: “Ensure intergovernmental coordination in the event of an emergency.”

ONGOING

- A Memorandum of Understanding (MOU) between UCF and Orange County encourages frequent communication and exchange of information on a project-by-project basis to determine any impacts to concurrency.

ONGOING

- No historical or archeological resources have been identified on the Main Campus.
- UCF’s natural resources are carefully protected.

2.13 Conservation

EAR CONTRIBUTORS

Amanda Lindsay, Landscape and Natural Resources
Curtis Wade, Utilities and Energy Services

NARRATIVE

The University is committed to protecting the environment and conserving resources as it continues to develop and expand. Since the 2015-25 CMP update, the University continues to:

- Coordinate with state and regional environmental agencies in the management of designated Conservation Areas and easements;
- Use Florida-friendly plant species in landscaped areas, and remove non-native invasive species;
- Evaluate options to reduce the levelized cost of energy delivered and produced on campus;
- Perform prescribed (controlled) burns;
- Use treated waste water effluent for campus irrigation and as process water in the district energy plant evaporative cooling process; and
- Maintain conservation of energy resources for present and future generations.

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GOAL 1: Maintain a commitment to the protection of its ecosystems and natural lands of significant environmental importance to ensure that these resources are protected for the benefit of present and future generations, while accommodating the continued development and expansion of the campus’s built environment.

OBJECTIVE 1.1: To ensure that the UCF Department of Landscape and Natural Resources will continue to oversee and review the conservation element of the Campus Master Plan and to designate environmentally sensitive lands for protection based on state and regionally determined criteria.

ONGOING

OBJECTIVE 1.2: To conserve, manage, appropriately use, and protect native vegetative communities and wildlife habitat, and to maintain the natural areas within the campus as a system of interconnected wetlands and upland preserves, as shown on the Conservation Map.

ONGOING

OBJECTIVE 1.3: To restrict activities that may threaten the habitat and survival of imperiled and vulnerable habitat (such as wetlands) and plant and animal species (Threatened, Endangered, and Species of Special Concern as defined by Florida Fish and Wildlife Conservation Commission).

ONGOING

OBJECTIVE 1.4: To conserve, appropriately use, and protect the quantity and quality of regional water sources.

ONGOING

OBJECTIVE 1.5: To maintain or improve existing air quality on campus.

ONGOING

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OBJECTIVE 1.6: To maximize on-campus reclamation of hazardous materials and consumer products.

ONGOING

- Recycling and salvaging consumer products is managed by Resource Management (RM); while reclamation or recycling of hazardous materials is managed by Environmental Health and Safety (EHS).

GOAL 2: Maintain a commitment to the conservation of its energy resources to ensure that these resources are protected for the benefit of present and future generations, while accommodating the continued development and expansion of the campus’s built environment.

OBJECTIVE 2.1: The University shall continue to implement a variety of existing programs and conserve the use of energy on the campus through the Department of Sustainability and Energy Management.²

ONGOING

- Essential to campus economic development is the continued focus on lowering energy prices, addressing energy conservation, improving energy efficiency, and creating a more robust and resilient campus to generate research. Implementing and leveraging energy-efficiency measures will continue to achieve significant cost-effective reductions, and scale-down greenhouse gas emissions. Aggressive and wider energy and sustainability policies shall continue to encourage all members of the UCF community to participate in energy efficiency and conservation, as the implication of energy supply impacts state resources and the environment.

2.14 Capital Improvements

EAR CONTRIBUTORS

Bill Martin, Facilities Planning and Construction
Susan Hutson, Facilities Planning and Construction

NARRATIVE

The University continues to seek funding from state and non-state sources in order to provide facilities that meet current and future needs. The University adheres to Board of Governors (BOG), standards in preparing a yearly Capital Improvement Plan (CIP). This plan requests planning, construction, and equipment funds from the State for all proposed capital projects within the next five-year (5) time frame.

GOAL 1: Provide academic, research, and support facilities to meet the academic needs of student enrollment as projected in the Academic Program Element; the Educational Plant Survey; and UCF’s office of Space Planning, Analysis, and Administration (SPAA); and the education, research, and support mission of the University.

² The Department of Sustainability and Energy Management (SEM) was re-envisioned in 2015 as two departments.

- Utilities and Energy Services (UES) was created to ensure energy efficient buildings through the production, delivery, optimization, and management of campus utility and energy systems, and to reduce UCF’s impact on the environment.
- Sustainability Initiatives (SI) was created to integrate sustainability across all disciplines within the University, and not just focus on energy.

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OBJECTIVE 1.1: To seek a reasonable share of state capital construction funds to construct teaching, research, and support facilities.

ONGOING

OBJECTIVE 1.2: To include provisions for the renovation, repair, upgrading, and elimination of existing and aging facilities that do not serve existing or future needs.

ONGOING

OBJECTIVE 1.3: To coordinate land use decisions and available resources in order to maintain the level of service standards adopted in the Campus Master Plan and to meet existing and projected facility needs.

ONGOING

OBJECTIVE 1.4: To complete studies and review enrollment patterns, classroom needs, research laboratory needs, faculty and staff office needs, and infrastructure needs in relation to projected capital improvements funding to assure that adequate facilities and supporting infrastructure will be available when needed.

ONGOING

OBJECTIVE 1.5: To be prepared to limit on-campus enrollment if adequate capital construction, including infrastructure, cannot be provided or funded.

ONGOING

- UCF is working to determine the appropriate projected enrollment for the next 10-year planning period. In early 2019, Interim President Thad Seymour appointed an ad-hoc committee to investigate and recommend projected enrollment (2020-2030) by late 2019.

GOAL 2: Provide support facilities including utility plants, student services buildings, libraries; computer services buildings, food services buildings, auxiliary services buildings, and other buildings to meet the needs of students who live on or near campus.

OBJECTIVE 2.1: To seek additional funds to augment state capital construction funds.

ONGOING

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Section 2 – RETAINED OPTIONAL ELEMENTS

EAR Section 2 will evaluate each of the five (5) Optional Elements that are retained from the 2015-25 CMP to the 2020-30 CMP by reviewing the Elements’ Goals and Objectives, and reporting the Objectives’ statuses. They include:

- URBAN DESIGN
- ACADEMIC FACILITIES
- SUPPORT FACILITIES
- UTILITIES
- FACILITIES MAINTENANCE

2.3 Urban Design

EAR CONTRIBUTORS

Bill Martin, Facilities Planning and Construction
Susan Hutson, Facilities Planning and Construction

NARRATIVE

The URBAN DESIGN Element of the UCF Campus Master Plan provides an overview of the existing concepts and principles guiding campus development.

GOAL 1: Create a campus which is a cohesive environment characterized by appropriate building or tree placements that frame organized open spaces, logical pedestrian pathways to the core of campus, and simplified vehicular circulation.

OBJECTIVE 1.1: To protect, enhance, and develop meaningful campus exterior spaces.

ONGOING

OBJECTIVE 1.2: To organize the placement of service and loading functions to avoid interference with campus open spaces and circulation.

ONGOING

OBJECTIVE 1.3: To ensure the compatibility of the University with the host community boundary and abutting neighborhood context with respect to building location, orientation, mass and scale, landscape

ONGOING

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character, and ground level character.

OBJECTIVE 1.4: To maintain and enhance functional linkages between major campus activities.

ONGOING

OBJECTIVE 1.5: To develop energy-efficient campus buildings and facilities, as outlined in the UCF Design, Construction, and Renovation Standards.

ONGOING

EXCEEDED Policy 1.5.10: “All UCF buildings shall be LEED certified and meet Silver accreditation...”.

- UCF Design, Construction, and Renovation Standards now require an even higher standard of LEED Gold accreditation.

2.5 Academic Facilities

EAR CONTRIBUTORS

Bill Martin, Facilities Planning and Construction
Susan Hutson, Facilities Planning and Construction

NARRATIVE

Academic Facilities include Classrooms, Teaching Labs, Research Facilities, Libraries (study areas and stacks for book storage) and Academic Departments (offices supporting academic departments).

GOAL 1: Provide modern, well-equipped, academic facilities on campus sufficient to meet general requirements of state-of-the-art instruction in all of its various programs.

OBJECTIVE 1.1: To provide modern, well-equipped classrooms on campus sufficient to meet general requirements of state-of-the-art instruction in all of its various programs.

UNMET Policy 1.1.1: UCF did not “add 10,000 NASF³ of classrooms per year”, as capital funding was not made available.

Main Campus classroom inventory added since the 2015-25 CMP included:

- UCF Global – 18 departmental classrooms
- Trevor Colbourn Hall – 5 General Purpose Classrooms and 2 Departmental Classrooms

Classroom improvements caused little or no change to NASF.

- Tech Fee⁴ projects renovated many learning spaces since January 2015.
- Business Administration renovated a large lecture hall into an active learning classroom, at some loss of seating capacity.

³ Net Assignable Square Feet (NASF) is useable space available to be assigned to departments. NASF does not include useable, non-assignable space (corridors, stairs, restrooms, custodian closets, electrical, and mechanical space).

⁴ The 2007 Florida Legislature established a student technology fee (Tech Fee), beginning with the fall term of the 2009-2010 academic year. The revenue from the fee is used to enhance instructional technology resources.

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- Business Administration renovated a small lecture hall and some surrounding spaces into an active learning classroom.
- Classroom I converted a classroom into a new state-of-the-art classroom for testing classroom technology.
- Facilities Operations upgraded the classroom furniture in two buildings.

Notes:

- The construction of more than 30 classrooms, on the UCF Downtown Campus, may also serve to relieve some Main Campus classroom need.

OBJECTIVE 1.2: To provide teaching laboratories sufficient to meet the specialized requirements of instruction in all of its various programs, at both the undergraduate and graduate levels.

UNMET Policy 1.2.1: UCF did not “add 20,000 NASF of teaching labs per year”, as capital funding was not made available.

Main Campus teaching lab inventory added since the 2015-25 CMP included:

- UCF Global – 1 Teaching Lab and 2 Open Labs
- Trevor Colbourn Hall – 2 Teaching Labs and 5 Open Labs

OBJECTIVE 1.3: To provide research laboratories sufficient to meet the needs of scholarship by undergraduate and graduate students, as well as faculty in all of its various programs.

UNMET Policy 1.3.1: UCF did not “increase...research laboratory inventory by an average of at least 25,000 NASF per year.”

Main Campus research lab inventory added since the 2015-25 CMP included:

- Research I – 50+ labs
- CREOL addition – 8 research labs

OBJECTIVE 1.4: To provide state-of-the-art library facilities and library resources sufficient to support the instruction of its undergraduate and graduate students, as well as scholarship by its students and faculty.

UNMET Policy 1.4.1: UCF did not “double on-campus library space inventory by the year 2020.”

Note: Since the 2015-25 CMP, UCF completed the first 2 phases of the “John C Hitt Library Renovation and Expansion”. In addition to adding new space, the project removed book stacks to free up space for study and support in the existing library.

- Phase 1 added a new Automated Retrieval Center building (ARC) capable of storing over 600,000 books.
- Phase 2 added approximately 41,000 NASF⁵ for use as study and library support space.
- Future Phases will renovate more than 200,000 NASF of the library for use as study and support space.

Note: The construction of a small library at the Dr. Phillips Academic Commons, on the UCF Downtown Campus, may also serve to relieve some Main Campus library need.

⁵ This NASF is an estimate as UCF Space Administration has not calculated the actual NASF based on 47,824 GSF.

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OBJECTIVE 1.5: To establish the timing and phasing of development of future academic space on campus.	ONGOING
OBJECTIVE 1.6: To set priorities for the development of future academic buildings.	ONGOING
OBJECTIVE 1.7: To estimate the funding necessary for the development of future academic facilities	ONGOING
OBJECTIVE 1.8: To define appropriate locations for future academic buildings.	ONGOING
OBJECTIVE 1.9: To encourage energy efficiency and conservation techniques in all future facilities.	ONGOING

2.6 Support Facilities

EAR CONTRIBUTOR(S)	Bill Martin, Facilities Planning and Construction Susan Hutson, Facilities Planning and Construction
NARRATIVE	Support Facilities include administrative offices and computer uses; campus administrative spaces, such as Facilities Maintenance; student support services and activities of a non-academic nature such as the Student Union; and auditoria/exhibition spaces.

GOAL 1: Continue to plan and develop support facilities required to meet the needs of the projected future student enrollment.

OBJECTIVE 1.1: To define appropriate locations for future support facilities including: administrative offices, Facilities Operations facilities, auxiliary facilities, and intercollegiate, intramural, and recreational athletic facilities.	<p>ONGOING</p> <ul style="list-style-type: none"> • Since the 2015-25 CMP the following support facilities were added or expanded: <ol style="list-style-type: none"> 1. Warehouse Support Building (Bldg. 16-F) 2. District Energy Plant IV (Bldg. 143) 3. Facilities Support Building (Bldg. 162) 4. Garage C Expansion (Bldg. 83) 5. Lab & Environmental Support (Expansion of Bldg. 48)
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OBJECTIVE 1.2: To identify support projects to meet the needs of the campus. To amend the adopted Campus Master Plan, as needed, to reflect the timing and phasing requirements of the projects as defined in the Capital Improvements Element.

6. Arboretum Greenhouse (Bldg. 161)
7. Band Practice Facility (Bldg. 163)
8. Wayne Densch Center for Student-Athlete Leadership (Bldg. 136)
9. Temporary Football Game-Day Parking
10. Garvy Center for Student-Athlete Nutrition (part of Bldg. 135)
11. Pollo Tropical Restaurant (Bldg. 183)
12. Roth Athletics Center (Bldg. 165)

ONGOING

- Several new or expanded support facilities were added to the 2015-25 CMP by minor amendment:
 1. September 2015: Lab & Environmental Support Bldg. Expansion
 2. January 2016: Stand-alone Food Venue (Pollo Tropical)
 3. January 2017: Softball Stadium Expansion and Renovation
 4. October 2017: Garvy Center for Student-Athlete Nutrition
- Other projects listed under Objective 1.1 were added to the 2010-20 CMP by minor amendment.

2.10 Utilities

EAR CONTRIBUTORS

Curtis Wade, Utilities and Energy Services
Michael Scruggs, UCF IT

NARRATIVE

The 2015-2025 CMP update incorporates methods to account for, and avoid, potential strains on the environment resulting from these services, and places preference on higher development density as opposed to campus sprawl. Future planning of infrastructure and utilities seeks to use innovative solutions for conservation, demand side management, fuel and potable water switching, and renewable energy initiatives.

CHILLED WATER SUB-ELEMENT

GOAL 1: Develop an on-campus chilled water generation and distribution system that adequately serves the future campus population needs

OBJECTIVE 1.1: To ensure that there is an adequate chilled water generation and distribution system capacity to accommodate the proposed demand.

ONGOING

With construction of the District Energy Plant IV in 2018, the University can now provide peak cooling under a N+2 paradigm. This model ensures campus cooling even if one machine is down for maintenance and a second machine fails. As funding becomes available, replacing the distribution infrastructure with larger pipe is necessary and integral to address pressure and flow

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deficiencies, reducing plant and building pump-energy costs, and to account for future campus demands.

ELECTRICAL POWER AND OTHER FUELS SUB-ELEMENT

GOAL 2: Provide an on-campus electrical power and natural gas distribution system which adequately serves the future campus population needs.

OBJECTIVE 2.1: To continue ongoing inspection and coordination efforts with service providers, the University shall continue to identify and resolve any deficiencies in the servicing of electrical and natural gas power distribution systems.

ONGOING

Through partnership and collaboration with UCF, Duke Energy Florida continues to invest and address reliability and capacity with the “Campus Up-lift” initiative. In 2018, Duke Energy began an expansion project on their south substation that will add capacity and replace vintage switchgear by 2021. Transformers exceeding 15 years old continue to be phased-out and replaced. Vintage distribution cable is also scheduled to be replaced in phases throughout campus over the next two years. Duke Energy is also working closely with the University to separate the commercial grid’s busbar to minimize operational faults on critical utility generation assets. UCF and Duke Energy also are working closely to develop advanced outage detection, monitoring, and alarming notifications.

In 2018, TECO People’s Gas replaced the campus’ natural gas cathodic protection systems. In 2019, UCF established a distribution integrity management program for natural gas to ensure proper operation, inspection, and management of the natural gas distribution system.

OBJECTIVE 2.2: To ensure the provision of adequate electrical and natural gas services through the continued internal funding and coordination with external service providers.

ONGOING

In 2019, utility concurrency management provisions were added to ensure adequate utility supply and interconnection. As future development is unknown, funding provisions and utility planning shall be put in place, prior to any project approval.

TELECOMMUNICATIONS SUB-ELEMENT

GOAL 3: Provide an on- campus telecommunications system, which adequately serves the future campus population needs.

OBJECTIVE 3.1: Through ongoing inspection and coordination efforts with service providers, the University shall continue to

MET

- All carriers have been routed to the proper DMARCation⁶ points around campus. Services are physically redundant through the Outside Plant Duct bank.

⁶ DMARC refers to a central building or location where telecommunications services terminate.

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identify and resolve any deficiencies in the servicing of telecommunications systems.

OBJECTIVE 3.2: The University shall ensure the provision of adequate telecommunications facility services through continued internal funding of improvements and coordination with external service providers.

MET

- 95% of the campus has adequate outside plant duct bank. Additionally, UCF installed a new system that allows the University to retain its current duct banks and increase the current fill ratio of content within them.

2.17 Facilities Maintenance

EAR CONTRIBUTOR
NARRATIVE

Jason Wyckoff, Facilities Operations

Routine, scheduled maintenance of campus facilities is continuous and follows newly-implemented and highly-effective maintenance tracking systems.

Priorities are established in accordance with the current standards.

Maintenance funding is continuously sought, and when provided, is allocated to match priorities and needs.

GOAL 1: Implement planned and routine maintenance programs which will extend the useful life of all buildings and prevent premature capital outlay for replacement. Through managed maintenance, Facilities and Safety will support facilities to provide the University community with a safe environment beneficial for teaching, research, and service.

OBJECTIVE 1.1: To establish the acceptable use and capacity of each building.

ONGOING

OBJECTIVE 1.2: To establish the desired level of performance for building components.

ONGOING

OBJECTIVE 1.3: To establish a preventative maintenance schedule for campus facilities.

ONGOING

- For more on preventative maintenance, see Objective 1.4

OBJECTIVE 1.4: To establish priorities for

ONGOING – many policies

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maintenance and improvement projects.

MET Policy 1.4.1 "...shall identify maintenance and improvement projects on an ongoing basis."

- In 2015, UCF implemented a new Standard Operating Procedure for prioritizing projects.

MET Policy 1.4.3 "...shall maintain buildings using a computerized system."

- In 2015, UCF implemented AiM, a Computerized Maintenance Management System (CMMS) that is used for work orders and asset management.

MET Policy 1.4.5: "Immediate threats to the health, safety, and welfare ... shall receive immediate attention."

- Life Safety (LS) issues are addressed with LS Work Orders in the AiM system.

OBJECTIVE 1.5: To establish a schedule for eliminating deficiencies relating to current standards.

NOT IMPLEMENTED

- Policies 1.5.1 – 1.5.4 indicate timetables for correction or quantities of deficiencies per year to be corrected.

Deficiencies are corrected according to new prioritization and maintenance standards, not timetables.

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Section 3 – RETIRED OPTIONAL ELEMENTS

Section 3 – RETIRED OPTIONAL ELEMENTS

EAR CONTRIBUTOR	Susan Hutson, Facilities Planning and Construction
NARRATIVE	<p>EAR Section 3 will evaluate, briefly, each of four (4) Optional Elements that are being retired from the CMP beginning in 2020:</p> <ul style="list-style-type: none"> 2.1 ACADEMIC MISSION 2.2 ACADEMIC PROGRAM 2.15 ARCHITECTURAL DESIGN GUIDELINES 2.16 LANDSCAPE DESIGN GUIDELINES <p>In the future, the growth and development of the University's Academic Mission, Academic Program, Architectural Design, and Landscape Design will be guided by resources other than the CMP.</p>

2.1 Academic Mission

Reason for Retirement	The <u>UCF Collective Impact Strategic Plan (2016)</u> fulfills the need for growth and development of the University's Academic Mission, once provided by the CMP and Dr. John C. Hitt's five guiding principles.
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- GOAL 1: Offer the Best Undergraduate Education Available in Florida**
- GOAL 2: Achieve International Prominence in Key Programs of Graduate Study and Research**
- GOAL 3: Provide International Focus to Our Curriculum and Research Programs**
- GOAL 4: Become and Remain More Inclusive and Diverse**
- GOAL 5: Become and Remain America's Leading Partnership University**

OBJECTIVES	ONGOING with guidance from other resources.
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2.2 Academic Program

Reason for Retirement	The <u>UCF Collective Impact Strategic Plan (2016)</u> fulfills the need for growth and development of the University's Academic Program, once provided by the CMP.
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- GOAL 1: Be one of the nation's leading research universities recognized for its intellectual, cultural, technological, and professional contributions and renowned for its outstanding programs, partnerships, and commitment to undergraduate education.**

OBJECTIVES	ONGOING with guidance from other resources.
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Section 3 – RETIRED OPTIONAL ELEMENTS

2.15 Architectural Design Guidelines

Reason for Retirement

The UCF Design, Construction, and Renovation Standards are sufficiently robust to fulfill the need for Architectural Design Guidelines in lieu of the CMP.

GOAL 1: To develop a campus which recognizes a legacy of consistency and excellence in the architecture already in place, and sets a standard of excellence for future design endeavors.

OBJECTIVES

ONGOING with guidance from other resources.

2.16 Landscape Design Guidelines

Reason for Retirement

The UCF Landscape Master Plan and Design Guidelines are sufficiently robust to fulfill the need for Landscape Design Guidelines in lieu of the CMP.

GOAL 1: To create an exemplary campus outdoor environment that promotes comfort, security, sustainability, and a regional sense of place. and to create a rich and horticulturally diverse visual landscape exemplifying the composition of Central Florida's native environments, as well as the region's horticultural diversity, and historical tradition, and link these to educational opportunities.

OBJECTIVES

ONGOING with guidance from other resources.