

UC Merced IT ROADMAP FOR CHANGE

Items listed are presented using business or service nomenclature and represent the campus scope of business and academic services enabled or support by information technologies. They have been grouped according to their alignment to the UC Merced Project:

- CORE *Goal: Current State Foundation*
- STRATEGIC *GOAL: Invest & Transform*
- TACTICAL *GOAL: Optimize*
- EMERGING *GOAL: Research / Watch*
- CONTAINMENT *GOAL: No new development*
- RETIREMENT *GOAL: To Be Eliminated*

- **Red bold text represents currently resourced MANDATED effort being tracked as a projects** (note: project status may be on HOLD)
- **Bold text represents efforts currently resourced effort being tracked as a project** (note: project status may be on HOLD)

Software standards

Hardware standards

Campus-wide infrastructure software and hardware standards designed for scalability and sustainability

STRATEGIC GOAL: Invest & Transform

- **2020: Network and AV** (installation, programming and services)
- Downtown Campus Center: Network, VOIP, and AV (installation, programming and services)
- **Financial & Budget Management** (migration & new implementation)
- **Project ENABLE** (Operational DataStore modernization)
- **Undergraduate Admissions** (AARO-migration to UCD/ ART)
- **eProcurement** (Megger - migration & new implementation)
- Talent Management - Career & Represented: (TBD)
- **Business Intelligence** (integration)
- Extension enrollment – (new implementation & integration)
- **CyberRisk: Multi-factor Authentication** (DUO - implementation)
- Classroom/ Conference room AV (lifecycle replacement)
- **IT Infrastructure and Application modernization** (migration)
- **General Education ePortfolio**
- **Next Gen Network Upgrade**

BI Reporting & Planning (Tableau, Cognos, Microsoft, IBM TM1)
Application Modernization/ SOA (Mulesoft)
Infrastructure modernization (SCCM)

Cloud Storage
Cloud compute
Network Services (Brocade MLX/Extreme v2, Brocade ICX/Arris/Ruckus, Aruba & Palo Alto)

TACTICAL GOAL: Optimize

- **Telephone** (AT&T, VOIP)
- Timekeeping / Timecards (TBD)
- **Graduate Admissions** (Target X; SLATE)
- Parking (TAPs, NuPark migration)
- Service Management (ServiceNow)
- **Operational Data Store / Project ENABLE** (Ellucian)
- **Desktop configuration management & End Point management** (SCCM)
- Advance Malware protection (TBD)
- Integrated POS
- **CyberRisk: Vulnerability Scanning**
- **IT Disaster Recovery**

Telephone (Mitel / Level 3 Century Link)
Advanced Malware(PAN)
Vulnerability Scanning (Quallys)
Enterprise Database (Oracle)
Service Management (Service Now)

CORE Goal: Current State Foundation

- **Student Information System** (Ellucian Banner)
- **Online UC Course Enrollment** (Ellucian, UC Custom)
- Degree Advising & Planning (u.Direct, MyAudit)
- Undergraduate Scholarship Management (Academic works)
- **Curriculum & Course management** (Curriculog/CPMIS)
- **Institutional Assessment:** (TracDat, Nuventive & Performs)
- **Course/Faculty Evaluations** (Class Climate, SOE Custom)
- **Promotion & Tenure** (Digital Measures, Interfolio/ARCS)
- Student Loan Management (ECSI, NSLDS, EdConnect, ELM)
- **Payroll** (PeopleSoft UC Path)
- Talent Management - Academic: (AP Recruit)
- Talent Management - Graduate, TA & Lecture: (GLAAS)
- Banking & eCommerce (CashNet, CBORD)
- Housing Management (StarRez)
- Dining POS (CBORD, Micros)
- **Room Scheduling** (Ad Astra, O365, Custom, EMS)
- Space Management (Facilities Link)
- Web content management (Drupal & Backmesh)
- **Document management & workflow** (Hyland OnBase)
- Alumni & Donor Relations (Raizers Edge, iModules)
- Research Administration (Cayuse)
- Effort Reporting (UC Custom App)
- **Learning Management System** (CANVAS)
- Digital Asset Management (Kaltura)
- Desktop storage (Box)
- Desktop Productivity (MS Office Suite)
- Desktop backup (CrashPlan)
- Classroom Control System (AMX)
- Computer Lab Management (Ghost, Insight, Deep Freeze, Vera Lab, Flex LM)
- Video Conferencing (ZOOM, MS Skype)
- eMail (MS Office 365)
- Print Management (Pharos)
- Video Surveillance System (Pelco Video Xpert)
- Building Access (CBORD)
- Emergency Mass Notification (Everbridge)
- Police Dispatch system (RIMS)
- Student Health Records Management
- Data Loss Prevention (Palo Alto Aperture)
- **Identity Management**

IdM Services (Microsoft MIM & Active Directory, CAS, Shibboleth, TIER-MidPoint)
Enterprise Database (Oracle, MS SQL)
VPN (Palo Alto)
Web Platform (Drupal)
Servers (VMWare, Windows 2016)
Desktop (Windows, Mac OS)

Telephone (AT&T mobile)
Storage (Quest Pure Storage SAN, NetApps)
Servers (Dell)
Desktop (HP, Dell, Apple)

EMERGING

GOAL: Research / Watch

- Messaging (SLACK)
- Virtual Desktop/Virtual Labs
- Digital Signage
- **Science DMZ Network architecture**

CyberInfrastructure (PerfSonar, Globus, Jupyter Hub, GitHub, Kubernetes)
Computer & Storage (SDSC)

Network Services (Fiona DTNs, IPv6, 100 GB)
MERCED Cluster

CONTAINMENT

GOAL: No new development

- Performance Management (Halogen)
- Student Portal (Uportal)
- HRIS (Job Builder, UC Custom)
- Lecture Capture (MediaSite)
- Electronic signature (DocuSign)
- Telephone copper cabling

Telephony (AT&T Centrex)
Storage (SGI, UCB CatDrive)
Server (CISCO Blade, Windows 2012, 2008)

RETIREMENT

GOAL: To Be Eliminated

- Procurement (CatBuy UCLA hosted)
- Talent management (PAWS custom)
- Desktop storage (CatDrive, UCB hosted)
- Learning Mgt System (CROPs)
- MSO Tools
- Inteliforms
- Document management & workflow (Transforms + ImageNow)

Network Services (Extreme v.1,)
Storage(SGI)
Servers (Windows 2003)
VSFTP Migration -FIP Berkley