

campusM Timetable

Overview

campusM timetable is a native built-in feature that is part of the app's standard integration offering. The timetable feature allows students, lecturers or other users of the app to view their schedule or list of calendar events for the day, week, month or year through the app using their mobile devices or Web browsers. If universities have more than one timetable feed, e.g., Course timetable, Exam timetable, Events timetable etc., the app provides a single blended calendar feature for the users to view all the timetable events in one calendar view. This feature is available only for iOS and Android apps, but not via Web.

Our Vendors/Timetable Systems

Universities can have the timetable sources from different timetable systems/products. The following are the list of timetable systems/vendors that campusM commonly integrates with:

- [Celcat](#)
 - [Ellucian Banner](#)
 - Ellucian Colleague
 - [Oracle PeopleSoft](#)
 - Generic (Systems other than above) - Database / API responses which return responses per below and as described [here](#)
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Timetable Data Specification

For an institution to integrate with the campusM built-in timetable component, the University's Connect Layer is a mandatory requirement. A campusM connector must be setup by the Ex Libris campusM team on the University's Connect Layer based on the specific system/vendor, which in turn acts as the intermediary between the app and the timetable data source. The Connect Layer Web services will fetch the data from the timetable systems and populate the information within the app.

The Connect Layer Web services retrieves the data using a unique identifier of the end-user along with a given timeframe start & end-time. The response should include details of the event occurrences within the specified start & end time and a unique Event ID.

The following are the list of fields accepted by the Connect Layer Web services and displayed in the app against a calendar event. The fields that are mandatory are marked as (m).

Field name	Notes
Unique Event ID (m)	Unique id for the event, Max 100 chars ID should contain only alphanumeric chars and can include '.', '-', ':'
Primary description (m)	Name of the Event/Course/Exam
Secondary description	Description of the Event/Course/Exam
Tertiary description	Any additional details of the event type and is displayed in the detail page of the calendar below the primary description
Start datetime (m)	The Format is flexible and can also use separate fields for date/time
End datetime (m)	The format is flexible and can also use separate fields for date/time
Lecturer name	Name of the lecturer
Lecturer email address	Click on the email will link out the user to send an email.
Location name	This will describe the location of the event
Location reference	Click on the location will link out the user to campus maps. This must be a unique identifier for the location you want to link to in campus maps. The data type can be any string, and must be set as the location reference for the position in the App Manager.
Location postcode	If the location postcode is populated, the location name will be treated as the first line of an address rather than a room name
Phone number	Contact number of the event location or organizer
Attendance Exclude (mandatory for Attendance)	A flag that defines whether or not to exclude the event from attendance monitoring. Note that this is only relevant when campusM Attendance has been deployed.

Prerequisites

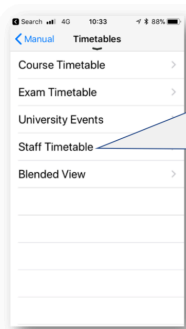
Universities can have more than one timetable system feed, and each of these systems may have different timetable formats, such as an ical feed, API-based JSON or XML feeds, and Database view. The following is a list of general prerequisites that are mandatory for integrating your timetable systems with campusM.

Timetable Data source	Prerequisite	Additional Information
Generic	Ensure the Connect Layer server(s) can connect to the timetable systems for accessing the data	This is a mandatory pre-requisite
	Provide a minimum of 3 test accounts that have the following data. <ul style="list-style-type: none"> • Student ID/Student Email address • Event/Exam/Course Title • Event/Exam/Course Description • Start Date • End Date • Lecturer name • Lecturer email address • Location name • Location reference (link to the location) • Location postcode • Phone number • Attendance Exclude 	
Database	Provide Database Connection Details : <ul style="list-style-type: none"> • Connection name • Hostname • Port • Database name • Username • Password 	
	Provide the SQL query to extract the data from table or a view	
API	Provide API URL/hostname of the timetable systems for <ul style="list-style-type: none"> • Test environment • Production environment 	

Timetable Data source	Prerequisite	Additional Information
	Provide API credentials	
	Provide sample request and response of the API	
Other	Provide sample data from the data source. Also details on how to retrieve personalized data can be retrieved for a specific user	Data sources could be through ical feeds, XML, JSON or RSS feeds, csv files etc. but must adhere to the format structure noted above.

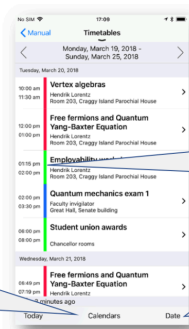
Look and Feel

Blended Calendar View



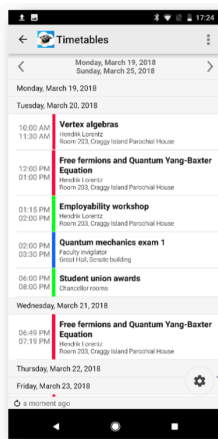
By default, blended calendar is shown as part of the calendar list view and is only shown if there is more than one calendar available. However, the App can be set to directly jump to the blended view with no calendar list by our professional services team, on your request.

The Calendars item allows you to select which calendars to blend onscreen

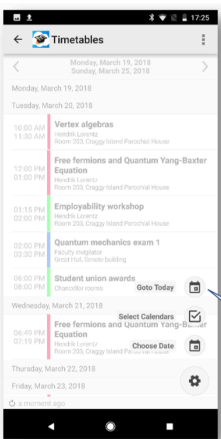


Calendars are color coded by type, and can be filtered using the Calendars option

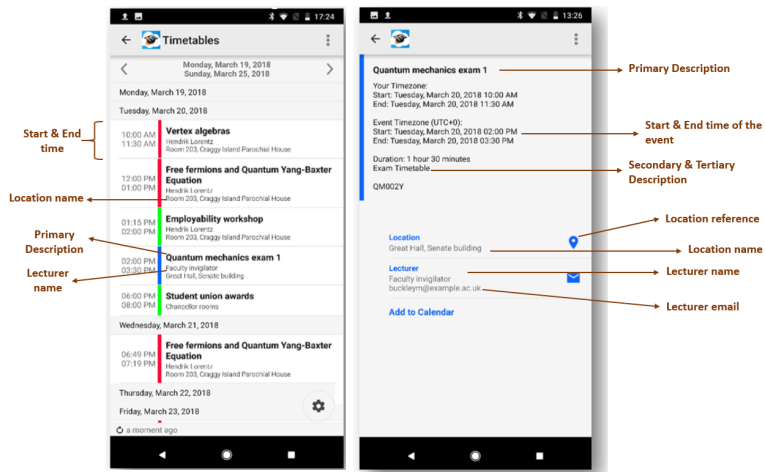
Use the date option to select a specific week to display, or Today to return to the current week



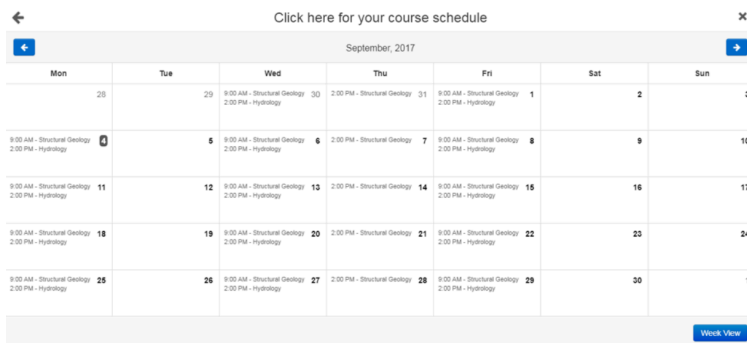
View options can be accessed from the settings cog here on Android



Today, Select Calendar and Choose Dates are shown once cog is clicked



Web Calendar View



Offline Functionality

Every time a campusM user visits their calendar and views the events for the week, month/s, all the timetable details of those events will be cached in the app. So, if the user is accessing the app offline later on, they may view all the cached/ previously viewed data. If the user logs out of the app, the cache gets cleared automatically.

Configuration Options

Configurable Element	Options/Default value
Tile view on home page	The tile can be configurable as 'Static' or 'Live' tile
Add to calendar	A timetable event can be added to the device calendar
Label on the live tile	The default text is shown as 'Class Schedule'

Configurable Element	Options/Default value
Monthly/Weekly view screen title	The default text is shown as ' Course schedule '
Event/course details screen title	The default text is shown as ' Details '

Suggested Testing Guidelines

The following acceptance criteria is recommended to be used as part of the testing and approval process:

- User should be able to view the Timetable Tile (Static/live) on the main dashboard
- Click on the tile should navigate the user to see their class/course schedule in week/month view
- If there are more than one timetable, the user can have a blended calendar view on their mobile devices to see/ filter their calendar events using the filter options.
- Click on an event/course will navigate the user to a detailed page view that has the event/course details
- Click on the lecturer email link from the detailed page should navigate the user to the email.
- Click on the phone number from the detailed page should connect to the user's device phone dialer.
- User should be able to add an event(s) to their device calendar.