NJIT Course Schedules API Data Dictionary
Open for NJIT Hackathon 2011 (February 5 and 6, 2011)

Last updated: Feb 1, 2010 at 5:44 pm

RESTful web service that provides the data that builds http://courseschedules.njit.edu/

It has data from spring and fall 2010 courses. It is available at:

http://courses-hackathon.njit.edu/CourseServiceHack/SISConnxService.asmx

This service is only available through classrooms (public wired ports, Campus Center, Library, instructional locations), the wireless VPN, and the Residence Hall Network for a limited time during February 2011.

Upon http request, it will provide XML data back to you in a format similar to:

```xml
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
    <soap:Body>
        <getCourseDetails xmlns="http://www.njit.edu/foo">
            <ticket>string</ticket>
            <term>string</term>
            <subjectID>string</subjectID>
            <course>string</course>
        </getCourseDetails>
    </soap:Body>
</soap:Envelope>
```

Parameters:

callNo- (ex 32193) Unique number used to identify a specific section of a specific course in a specific subject.

course- (ex 115) For requests, the three number id for a course: ACCT 115-002

course- For response, could be a container holding information about a singular course

courseListing- For responses, a container of courses

credits- Number of credits a course is worth

days- (ex W:1000AM – 1125AM$M:100PM – 225PM) Day and time that a class meets, multiple values separated by '$'
description- Paragraph providing details about the course

instructor- Displayable name of the instructor

instructorUCID- UCID of the instructor

lastModifiedTime- Time that the information was last updated (currently Jan 25 2011 12:45PM)

maxSeat- Number of slots a course has for registration

name- (ex ACCT 115) Combines subjectID and course for quick reference

No- (ex 115) Used in responses, this refers to the course number: ACCT 115-002

nowRegistered- Number of registration slots currently filled

room – (ex KUPF211$KUPF211) The building and room that a class meets, multiple values separated by ‘$’ in order of multiple values in days

sectionID- (ex 002) Used in both requests and responses, usually a three number id for a section: ACCT 115-002

status- (ex Open) Registration status of a class Open or Closed

subjectID – (ex ACCT) Used in both requests and responses, abbreviation of the course subject: ACCT 115-002 For a full list, refer to the getSubjectListing service.

subjectName- (ex Accounting) Reader friendly course subject.

subjects- container for multiple subject containers

term – (ex 2011S) Used in both request and response, four digit year followed by the semester identifier. S= Spring, F=Fall, U=Summer, W=Winter

title- (ex FUND OF FINANCIAL ACCOUNTING) Used for both requests and responses, refers to the title in the system for a given course.

totalNoOfCourses- Number of courses in a given subject in a given term.

totalNoOfSections - Number of sections of a given course in a given term.

Services:

getCourseDetails
   Needs: term, subjectID, course
   Returns: term, subjectID, subjectName, No, title, description, totalNoOfSections, deptName
getCourseDetailsByTitle (mainly used for overlapping course numbers or honors sections)
   Needs: term, subjectID, course, title
   Returns: term, subjectID, subjectName, No, title, description, totalNoOfSections, deptName

generateListing
   Needs: term, subjectID
   Returns: term, subjectID, courseListing, course, No, name, title, credits, description

generateLastModifiedTime
   Needs: <none>
   Returns: lastModifiedTime

generateSectionDetails
   Needs: term, subjectID, course, sectioned
   Returns: term, subjectID, subjectName, course, No, callNo, title, description, instructor, instructorUCID, days, room

generateSectionListing
   Needs: term, subjectID, course
   Return: term, subjectID, course, No, callNo, days, comments, room, status, maxSeat, nowRegistered, instructor, instructorUCID, credits

generateSectionListingFromTitle
   Needs: term, subjectID, course, title
   Return: term, subjectID, course, No, callNo, days, comments, room, status, maxSeat, nowRegistered, instructor, instructorUCID, credits

generateSubjectDetails
   Needs: term, subjectID
   Returns: term, subjectID, subjectName, deptName, totalNoOfCourses

generateSubjectListing
   Needs: term
   Returns: subjects, subjectID, subjectName

generateTeachingCourse
   Needs: ucid, term
   Returns: subjectID, course, courseSection, sectioned, title, callNo, days, comments, room, status, maxSeat, nowRegistered, instructor, instructorUCID, credits

generateTeachingSemester
   Needs: ucid
   Returns: termlID, description, teachingNoOfSections