Enrollment Web Services Users Guides for PeopleSoft Enterprise Campus Solutions 9.0
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# Table of Contents

- **Table of Contents** ................................................................................................................................. 3
- **Change History** ................................................................................................................................. 5
- **Audience** ............................................................................................................................................... 6
- **Overview** ............................................................................................................................................... 7
- **Prerequisites** ......................................................................................................................................... 8
- **Common Data Types** ......................................................................................................................... 10
- **StudyList** ........................................................................................................................................... 10
  - StudyList Schema ................................................................................................................................. 10
- **StudyList Deadlines** .......................................................................................................................... 10
  - StudyList Deadlines Schema ................................................................................................................. 10
- **CourseSearchResult** ............................................................................................................................ 11
  - CourseSearchResult Schema .................................................................................................................. 11
- **CourseOfferingDetailResult** ................................................................................................................ 11
  - CourseOfferingDetailResult Schema .................................................................................................... 11
- **ClassSearchResult** ................................................................................................................................ 11
  - ClassSearchResult Schema .................................................................................................................... 11
- **ClassSection** .......................................................................................................................................... 12
  - ClassSection Schema ............................................................................................................................ 12
- **StudyList Web Service Operations** ....................................................................................................... 13
  - GET StudyList Details ........................................................................................................................ 13
    - Description ........................................................................................................................................ 13
    - Input .................................................................................................................................................. 14
    - Output ............................................................................................................................................. 14
    - Message: SSR_GET_ENROLLMENT_RESP ......................................................................................... 14
  - GET Enrollment Deadlines ....................................................................................................................... 18
    - Description ....................................................................................................................................... 18
    - Input ................................................................................................................................................. 19
    - Output ............................................................................................................................................. 20
    - Message: SSR_STUDYLIST_DEADLINESRESP .................................................................................... 20
- **Course Catalog Web Service Operations** ............................................................................................... 24
  - BROWSE Course Catalog .................................................................................................................... 24
    - Description ....................................................................................................................................... 24
    - Input ................................................................................................................................................. 25
    - Output ............................................................................................................................................. 26
  - RETRIEVE Course Offering Detail ........................................................................................................ 28
    - Description ....................................................................................................................................... 28
    - Input ................................................................................................................................................. 29
- **Class Search Web Service Operations** ................................................................................................... 33
  - RETRIEVE Classes ............................................................................................................................... 33
    - Description ....................................................................................................................................... 33
    - Input ................................................................................................................................................. 34
    - Output ............................................................................................................................................. 35
    - Message: SSR_GET_CLASSESRESP ................................................................................................. 35
  - RETRIEVE Class Section Detail ............................................................................................................. 42
    - Description ....................................................................................................................................... 42
    - Input ................................................................................................................................................. 42
- **Configuration Hints and Tips** .................................................................................................................. 49
  - Entity Registry ....................................................................................................................................... 49
    - Recommendations: ............................................................................................................................ 49
  - Enrollment Configuration ....................................................................................................................... 49
    - Recommendations: ............................................................................................................................ 49
  - List of Values .......................................................................................................................................... 51
    - Recommendations: ............................................................................................................................ 53
- **Appendix** .................................................................................................................................................. 54
  - Entity Details for EWS .......................................................................................................................... 54
Browse Course ........................................................................................................................................................................... 54
  Service Operation: SSR_GET_COURSES ........................................................................................................................................ 54
  Service Operation: SSR_GET_COURSE_OFFERING .................................................................................................................... 54
Class Search .................................................................................................................................................................................. 55
  Service Operation: SSR_GET_CLASSES ...................................................................................................................................... 55
  Service Operation: SSR_GET_CLASS_SECTION .......................................................................................................................... 55
Study List ....................................................................................................................................................................................... 56
  Service Operation: SSR_GET_ENROLLMENT ............................................................................................................................... 56
  Service Operation: SSR_STUDYLIST_DEADLINES ..................................................................................................................... 56
Change History

<table>
<thead>
<tr>
<th>Release</th>
<th>Change Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional Features (AF) July 2011</td>
<td>First release of this guide for AF July 2011: <em>Enrollment Web Services (EWS)</em>.</td>
</tr>
</tbody>
</table>

This updated guide is available on My Oracle Support as part of the documentation delivered for the releases indicated in the table.
Audience

This document is designed to provide important information to customers who want to access and use the:

- Enrollment Web Service (EWS)
  - Course Catalog Web Service
  - Class Search Web Service
  - StudyList Service

Technical developers, consultants and, implementers should use this document to learn about the technologies used by these web services and to determine the scope of data that the web services can exchange between a self service Enrollment user interface (that the academic institution may build) and the PeopleSoft Campus Solutions system. Business and functional analysts should use this document to understand how the web services function.

This document is intended for users who are familiar with:

- A tool or technology to build and deploy the Enrollment user interface.
- PeopleCode.
- Web services concepts, mainly XML, SOAP, and WSDL.
- PeopleSoft Integration Broker.
- Campus Solutions Student Records and Enrollment functionality.
- Campus Community ‘Entity Registry’ functionality.

The following topics are covered in this document:

- The Common Data Types chapter provides information about the data that is exchanged between the Enrollment user interface (UI) and the PeopleSoft system.
- The StudyList Web Service Operations chapter describes the web service operations for StudyList related activities.
- The Course Catalog Web Service Operations chapter describes the web service operations for Course Catalog and retrieving Course Offering detail.
- The Class Search Web Service Operations chapter describes the web service operations for Class Search and retrieving Class Section detail.

Each section that describes a web service operation contains:

- An overview of the service operation.
- Steps that a web service operation performs to execute input parameters and give an output.
- Conditions that will make the service return an error message.
- Examples of XML inbound and outbound messages that a service operation can accept or produce.
Overview

Enrollment Web Service (EWS)

Institutions have different needs, requirements and preferences for interacting with their students during the enrollment process. It is essential that the interaction between the student and institution is a positive experience, meaning it is simple, convenient and as stress free as possible for both the institution and the student. The User interface (UI) through which a student interacts with the institution can vary widely from a plethora of handheld devices through to conventional web browser based methods. The nature of the target Campus demographic would indicate that the interface of choice would be one of a range of current generation handheld devices (smart phone, tablets, blackberry, etc). Options like conventional web browser based access (such as PeopleSoft Self Service Student Enrollment) need to also be supported. In order to facilitate this flexibility a suite of web services have been delivered to support the Self Service Enrollment process regardless of the user interface technology deployed at an institution.

The EWS feature, initially delivered with AF July 2011 offers access to the Campus Solutions Student Records and Enrollment functionality through service operations. The feature offers the following service operations:

- Retrieve (or Browse) Course Catalog
- Retrieve Course Offering Detail
- Retrieve Classes
- Retrieve Class Section Detail
- Retrieve StudyList
- Retrieve Enrollment Deadline Information

Any user interface that is web-service enabled and SOAP compliant can access these web services.

See Also

- PeopleSoft Enterprise Campus Community Fundamentals 9.0 PeopleBook, Setting Up Entity Registry which is posted to My Oracle Support as part of the Campus Community documentation for Bundle 22
- Enrollment Web Service Developers Guide.pdf on My Oracle Support for Additional Features July 2011
- Enrollment Web Services Documentation Package.pdf (PeopleBook documentation) on My Oracle Support for Additional Features July 2011

The ID for the My Oracle Support Campus Solutions 9.0 Documentation Home Page is 751540.1.
Prerequisites

EWS can be used by end user devices (such as a browser or a PDA), enterprise applications or any other third party software that can interface through standards based means.

EWS can be used by:

- Oracle presentation technologies (such as PORTAL, Application Development Framework [or ADF], and PeopleSoft components and pages).
- Oracle middleware (such as Enterprise Service Bus and BPEL).
- Oracle Applications (such as Enterprise, EnterpriseOne, and E-Business Suite).
- Third party presentation technologies.
- Third party middleware and applications.

EWS is constructed upon Oracle PeopleSoft Enterprise PeopleTools 8.50. Oracle’s PeopleSoft Enterprise PeopleTools 8.50 and higher versions support the tools and technologies listed in the following table.

<table>
<thead>
<tr>
<th>Technology/Product</th>
<th>Version/Specification</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apache Xalan</td>
<td>1.9. C++ version.</td>
<td>Apache Xalan is an XSLT processor for transforming XML documents into HTML, text, or any other document type.</td>
</tr>
<tr>
<td>Apache Xerces</td>
<td>2.6.0. C++ version</td>
<td>Apache Xerces is an XML parser.</td>
</tr>
<tr>
<td>AS2</td>
<td>RFC 3335</td>
<td>Based on software product IP*Works! EDI V6.</td>
</tr>
<tr>
<td>FTP/FTPS</td>
<td>5.1</td>
<td>NA</td>
</tr>
<tr>
<td>HTTP</td>
<td>1.1</td>
<td>NA</td>
</tr>
<tr>
<td>HTTPS</td>
<td>SSL 3.0</td>
<td>NA</td>
</tr>
<tr>
<td>iWay SOAPswitch</td>
<td>5.5.3</td>
<td>NA</td>
</tr>
<tr>
<td>JMS</td>
<td>1.0.2</td>
<td>NA</td>
</tr>
<tr>
<td>Oracle XSL Mapper</td>
<td>10.1.2.02</td>
<td>NA</td>
</tr>
<tr>
<td>SOAP</td>
<td>1.1 and 1.2</td>
<td>All SOAP output from PeopleSoft Integration Broker is version 1.1. PeopleSoft Integration Broker understands versions 1.1 and 1.2. EWS uses Schema for the SOAP/1.1 envelope, and SOAP/1.2 envelope found at <a href="http://schemas.xmlsoap.org/soap/envelope/">http://schemas.xmlsoap.org/soap/envelope/</a>.</td>
</tr>
<tr>
<td>UDDI</td>
<td>2.0</td>
<td>NA</td>
</tr>
<tr>
<td>WSDL</td>
<td>1.1</td>
<td>EWS uses the schema found at <a href="http://schemas.xmlsoap.org/wsd1">http://schemas.xmlsoap.org/wsd1</a>.</td>
</tr>
<tr>
<td>WS-Addressing</td>
<td>1.1</td>
<td>Currently the WS-Addressing document is a formal submission to W3C, the current submission is using schema under <a href="http://schemas.xmlsoap.org/ws/2004/08/addressing/">http://schemas.xmlsoap.org/ws/2004/08/addressing/</a>. However, the integration gateway uses an older version, <a href="http://schemas.xmlsoap.org/ws/2003/03/addressing/">http://schemas.xmlsoap.org/ws/2003/03/addressing/</a>.</td>
</tr>
<tr>
<td>Technology/Product</td>
<td>Version/Specification</td>
<td>Comments</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------------------</td>
<td>----------</td>
</tr>
<tr>
<td>WS-I Basic Profile</td>
<td>1.0</td>
<td>The WS-I Basic Profile 1.0 specification mandates support for SOAP 1.1, WSDL 1.1, UDDI 2.0, HTTP 1.1, SSL 3.0 (or HTTPS), XML 1.0 (2nd Edition), and XML Schema (Part 1 and 2).</td>
</tr>
<tr>
<td>WS-Interoperability</td>
<td>1.2.1</td>
<td>NA</td>
</tr>
<tr>
<td>XML</td>
<td>1.0 (Second edition.)</td>
<td>NA</td>
</tr>
<tr>
<td>XML schema</td>
<td>Parts 1 and 2</td>
<td>NA</td>
</tr>
<tr>
<td>XSLT</td>
<td>1.0</td>
<td>Use of Apache Xerces 2.6.0 and Apache Xalan 1.9, XSLT 1.0 is supported.</td>
</tr>
<tr>
<td>XQuery, XPath</td>
<td>1.0</td>
<td>Used in PeopleSoft Integration Broker transform programs. Use of Apache Xerces 2.6.0 and Apache Xalan 1.9, XQuery and XPath 1.0 is supported.</td>
</tr>
</tbody>
</table>
Common Data Types

This chapter lists the data types that EWS uses to exchange data between the Campus Solutions system and the student.

**StudyList**

The StudyList is the core object containing the complete view of a student’s enrollment. The StudyList object is derived from the Student Enrollment details within the Campus Solutions Student Records and Enrollment core data model.

**StudyList Schema**

Double click the StudyList.xsd icon to view the XML XSD for StudyList:

![StudyList.xsd](image)

The StudyList xsd above references the part schema SCC_ENTITY_STUDYLIST_RES.xsd provided below

![SCC_ENTITY_STUDYLIST_RES.xsd](image)

**StudyList Deadlines**

The StudyList Deadlines is the core object containing the complete details of class deadlines. This data is derived from the complete set of deadlines related data available in Campus Solutions Student Records and Enrollment core data model.

**StudyList Deadlines Schema**

The StudyListDeadlines.xsd icon to view the XML XSD for StudyList:

![StudyListDeadlines.xsd](image)

The StudyListDeadlines xsd above references the part schema SCC_ENTITY_DEADLINES_RES.xsd provided below

![SCC_ENTITY_DEADLINES_RES.xsd](image)
**CourseSearchResult**

The CourseSearchResult object represents an institution’s core Subject and Course information. This data is derived from the complete set of Subjects and Course catalog related data available in the Campus Solutions Student Records and Enrollment core data model.

**CourseSearchResult Schema**

EWS uses the CourseSearchResult schema to track Subject and Course related information.

Double click the `CourseSearchResult.xsd` icon to view the XML XSD for a course catalog:

![CourseSearchResult.xsd](#)

**CourseOfferingDetailResult**

The CourseOfferingDetailResult object represents the core information associated with a Course. The Course object is derived from the complete set of Course related data available in the Campus Solutions Student Records and Enrollment core data model.

**CourseOfferingDetailResult Schema**

EWS uses the CourseOfferingDetailResult schema to track course related information for an Enrollment.

Double click the `CourseOfferingDetailResult.xsd` icon to view the XML XSD for a course:

![CourseOfferingDetailResult.xsd](#)

**ClassSearchResult**

The ClassSearchResult object represents the core information associated with a Class. The Class object is derived from the complete set of Class related data available in the Campus Solutions Student Records and Enrollment core data model.

**ClassSearchResult Schema**

EWS uses the ClassSearchResult schema to track Class related information for an Enrollment.

Double click the `ClassSearchResult.xsd` icon to view the XML XSD for a course:

![ClassSearchResult.xsd](#)

The ClassSearchResult xsd above references the part schema `SCC_ENTITY_CLASS_SEARCH_RES.xsd` provided below:

![SCC_ENTITY_CLASS_SEARCH_RES.xsd](#)
**ClassSection**

The ClassSection object represents the core information associated with a Class Section. The ClassSection object is derived from the complete set of Class related data available in the Campus Solutions Student Records and Enrollment core data model.

**ClassSection Schema**

EWS uses the ClassSection schema to track the Class related information for an Enrollment.

Double click the ClassSection.xsd icon to view the XML XSD for a course:

ClassSectionResult.xsd

The ClassSectionResult xsd above references the part schema SCCENTITY_CLASSSECTION_RES.xsd provided below

SCCENTITY_CLASSSECTION_RES.xsd
StudyList Web Service Operations

Service Name: **SSR_ENROLLMENT**

StudyList web service offers functionality in the following areas:

- Retrieve Studylist
  
  Once a student is enrolled for a set of class sections in a specified term, the classes enrolled can be retrieved to show the current StudyList.

- Retrieve Class Deadlines
  
  This operation allows student to view class deadlines information.

---

GET StudyList Details

**Description**

<table>
<thead>
<tr>
<th>Service:</th>
<th>SSR_ENROLLMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation:</td>
<td>SSR_GET_ENROLLMENT: Retrieve details of StudyList</td>
</tr>
<tr>
<td>Summary:</td>
<td>Allows the student to view studylist details.</td>
</tr>
<tr>
<td>Description:</td>
<td>The Get studylist Service can be used to retrieve the student studylist detail. StudyList detail can be retrieved for a combination of INSTITUTION, ACADEMIC CAREER and TERM.</td>
</tr>
<tr>
<td>Users:</td>
<td>Student</td>
</tr>
<tr>
<td>Processing:</td>
<td>This service operation performs the following steps:</td>
</tr>
<tr>
<td>1.</td>
<td>Verify required input parameters exist</td>
</tr>
<tr>
<td>2.</td>
<td>Perform validations on the input parameters.</td>
</tr>
<tr>
<td>3.</td>
<td>Validate if the input term obeys the Term table date settings.</td>
</tr>
<tr>
<td>4.</td>
<td>Use the StudyList entity and its child entities to retrieve and populate Studylist details.</td>
</tr>
<tr>
<td>5.</td>
<td>Prepare response message containing the studylist details.</td>
</tr>
<tr>
<td>Output:</td>
<td>Response message containing the studylist details is sent back to the user.</td>
</tr>
<tr>
<td>Error Conditions:</td>
<td>The following conditions result in a service error:</td>
</tr>
<tr>
<td>•</td>
<td>The supplied input parameters are invalid</td>
</tr>
<tr>
<td>•</td>
<td>Today’s date is outside the input term’s ‘Display in Self-Service’ range. This is set in Setup SACR &gt; Foundation Tables &gt; Term Setup &gt; Term Session Table.</td>
</tr>
</tbody>
</table>
Input
Message: SSR_GET_ENROLLMENT_REQ

The following diagram shows the input parameters that the SSR_GET_ENROLLMENT service operation receives from the user interface:

![Diagram showing input parameters]

Figure 1: SSR_GET_ENROLLMENT_REQ Message Parameters

The following input parameters are mandatory for the user interface to pass to the service operation:

- EMPLID
- ACAD_CAREER
- INSTITUTION
- STRM

The following is an example of the SSR_ENROLLMENT_REQ message that the SSR_GET_ENROLLMENT service operation receives from the user interface:

```xml
<?xml version="1.0"?>
<SSR_GET_ENROLLMENT_REQ xmlns="http://xmlns.oracle.com/Enterprise/HCM/services">
  <SCC_ENTITY_INST_ID>ITEM ROW 1</SCC_ENTITY_INST_ID>
  <EMPLID>SR13454</EMPLID>
  <ACAD_CAREER>UGRD</ACAD_CAREER>
  <INSTITUTION>PSUNV</INSTITUTION>
  <STRM>0530</STRM>
</SSR_GET_ENROLLMENT_REQ>
```

SCC_ENTITY_INST_ID is used in error handling. In case of validation error, the error message will include this id so the UI can identify the row in error. This value is optional, and should be populated by the UI to use this error handling feature.

Output Message: SSR_GET_ENROLLMENT_RESP

When the Integration Broker receives the SSR_GET_ENROLLMENT_REQ message, it responds with the SSR_GET_ENROLLMENT_RESP message the structure of which is shown below.
The following is an example of the SSR_GET_ENROLLMENT_RESP message that the SSR_GET_ENROLLMENT service operation transmits to the user interface:

```xml
<?xml version="1.0"?>
<SSR_GET_ENROLLMENT_RESP xmlns = "http://xmlns.oracle.com/Enterprise/HCM/services">
<EMPLID>SR13424</EMPLID>
<ACAD_CAREER>UGRD</ACAD_CAREER>
<INSTITUTION>PSUNV</INSTITUTION>
<STRM>0620</STRM>
<SS_MESSAGE_LONG></SS_MESSAGE_LONG>
<ENROLLMENT_DETAILS>
<ENROLLMENT_DETAIL>
<SUBJECT>ART</SUBJECT>
<CATALOG_NBR>113</CATALOG_NBR>
<ASSOCIATED_CLASS>1</ASSOCIATED_CLASS>
<STDNT_ENRL_STATUS>E</STDNT_ENRL_STATUS>
<ENROLL_STATUS_DESCR>Enrolled</ENROLL_STATUS_DESCR>
<class_description>ART 113 - History of World Art</class_description>
<WAITLIST_POS>0</WAITLIST_POS>
<UNT_TAKEN>3</UNT_TAKEN>
<GRADING_SCHEMA_ENR>UGD</GRADING_SCHEMA_ENR>
<CRSE_GRADE_OFF></CRSE_GRADE_OFF>
<GRADING_BASIS_ENRL>GRD</GRADING_BASIS_ENRL>
<GRADE_BASIS_DESCRFORMAL>Graded</GRADE_BASIS_DESCRFORMAL>
<RQMT_DESIGNTN>DSGN</RQMT_DESIGNTN>
<RQMT_DESG_DESCRFORMAL>Design Course (Taken)</RQMT_DESG_DESCRFORMAL>
</ENROLLMENT_DETAIL>
</ENROLLMENT_DETAILS>
</SSR_GET_ENROLLMENT_RESP>
```
<ACAD_PROG>LAU</ACAD_PROG>
<ACAD_PROG_DESCR>Liberal Arts Undergraduate</ACAD_PROG_DESCR>
<ACAD_PROG_DESCR_VISIBLE>Undergraduate Grading Scheme</ACAD_PROG_DESCR_VISIBLE>

<CLASS_SECTIONS>
  <CLASS_SECTION>
    <CLASS_NBR>1008</CLASS_NBR>
    <CLASS_SECTION>1</CLASS_SECTION>
    <SSR_COMPONENT>Lecture</SSR_COMPONENT>
    <LMS_LINK></LMS_LINK>
    <LINK_GRADEBOOK_VISIBLE>N</LINK_GRADEBOOK_VISIBLE>
    <LMS_LINK_VISIBLE>N</LMS_LINK_VISIBLE>
    <CRSE_ID>001205</CRSE_ID>
    <CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
    <SESSION_CODE>1</SESSION_CODE>
    <SESSION_CODE_DESCR>Regular</SESSION_CODE_DESCR>
    <CRSE_GRADE_OFF>B</CRSE_GRADE_OFF>
    <GRADING_BASIS_ENRL>GRD</GRADING_BASIS_ENRL>
    <GRADE_BASIS_DESCRFORMAL>Graded</GRADE_BASIS_DESCRFORMAL>
    <RQMT_DESIGNTN></RQMT_DESIGNTN>
    <RQMT_DESG_DESCRFORMAL></RQMT_DESG_DESCRFORMAL>
  </CLASS_SECTION>
</CLASS_SECTIONS>

<ENROLLMENT_DETAIL>
  <SUBJECT>ENGLLIT</SUBJECT>
  <CATALOG_NBR>415</CATALOG_NBR>
  <ASSOCIATED_CLASS>1</ASSOCIATED_CLASS>
  <STDNT_ENRL_STATUS>E</STDNT_ENRL_STATUS>
  <ENROLL_STATUS_DESCR>Enrolled</ENROLL_STATUS_DESCR>
  <CLASS_DESCRIPTION>ENGLLIT 415 - Crit Theor</CLASS_DESCRIPTION>
  <WAITLIST_POS>0</WAITLIST_POS>
  <UNT_TAKEN>3</UNT_TAKEN>
  <GRADING_SCHEME_ENR>UGD</GRADING_SCHEME_ENR>
</ENROLLMENT_DETAIL>

<ACAD_PROG>LAU</ACAD_PROG>
<ACAD_PROG_DESCR>Liberal Arts Undergraduate</ACAD_PROG_DESCR>
<ACAD_PROG_DESCR_VISIBLE>Undergraduate Grading Scheme</ACAD_PROG_DESCR_VISIBLE>

<CLASS_SECTIONS>
  <CLASS_SECTION>
    <CLASS_NBR>1196</CLASS_NBR>
    <CLASS_SECTION>1</CLASS_SECTION>
    <SSR_COMPONENT>Lecture</SSR_COMPONENT>
    <LMS_LINK></LMS_LINK>
    <LINK_GRADEBOOK_VISIBLE>N</LINK_GRADEBOOK_VISIBLE>
    <LMS_LINK_VISIBLE>N</LMS_LINK_VISIBLE>
    <CRSE_ID>003318</CRSE_ID>
    <CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
    <SESSION_CODE>1</SESSION_CODE>
    <SESSION_CODE_DESCR>Regular</SESSION_CODE_DESCR>
    <CRSE_GRADE_OFF>B</CRSE_GRADE_OFF>
    <GRADING_BASIS_ENRL>GRD</GRADING_BASIS_ENRL>
    <GRADE_BASIS_DESCRFORMAL>Graded</GRADE_BASIS_DESCRFORMAL>
    <RQMT_DESIGNTN></RQMT_DESIGNTN>
    <RQMT_DESG_DESCRFORMAL></RQMT_DESG_DESCRFORMAL>
  </CLASS_SECTION>
</CLASS_SECTIONS>

<ENROLLMENT_DETAIL>
  <SUBJECT>ENGLLIT</SUBJECT>
  <CATALOG_NBR>468</CATALOG_NBR>
  <ASSOCIATED_CLASS>1</ASSOCIATED_CLASS>
  <STDNT_ENRL_STATUS>E</STDNT_ENRL_STATUS>
  <ENROLL_STATUS_DESCR>Enrolled</ENROLL_STATUS_DESCR>
  <CLASS_DESCRIPTION>ENGLLIT 468 - Memoir</CLASS_DESCRIPTION>
  <WAITLIST_POS>0</WAITLIST_POS>
  <UNT_TAKEN>3</UNT_TAKEN>
  <GRADING_SCHEME_ENR>UGD</GRADING_SCHEME_ENR>
</ENROLLMENT_DETAIL>
The following is an example of the SCC_FAULT_RESP message that the SSR_GET_ENROLLMENT service operation transmits to the UI when a service error has occurred:

```xml
<?xml version="1.0"?>
<SOAP-ENV:Envelope
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/">
  <SOAP-ENV:Body>
    <SOAP-ENV:Fault>
      <faultcode>Client</faultcode>
      <faultstring>An Error occurred processing this request (14098,286)</faultstring>
      <detail>
        <MSGS>
          <MSG>
            <ID>14200-557</ID>
            <DESCR>StudyList - INSTITUTION(SSR_STDYLST_WRK.INSTITUTION) Invalid value - Check and try again</DESCR>
            <MESSAGE_SEVERITY>E</MESSAGE_SEVERITY>
            <PROPS>
              <PROP>
                <SCC_ENTITY_INST_ID>ITEM ROW 1</SCC_ENTITY_INST_ID>
                <PROPNAME>INSTITUTION</PROPNAME>
              </PROP>
            </PROPS>
          </MSG>
          <MSG>
            <ID>14200-557</ID>
            <DESCR>StudyList - STRM(SSR_STDYLST_WRK.STRM) Invalid value - Check and try again</DESCR>
            <MESSAGE_SEVERITY>E</MESSAGE_SEVERITY>
            <PROPS>
              <PROP>
                <SCC_ENTITY_INST_ID>ITEM ROW 1</SCC_ENTITY_INST_ID>
                <PROPNAME>STRM</PROPNAME>
              </PROP>
            </PROPS>
          </MSG>
        </MSGS>
      </detail>
    </SOAP-ENV:Fault>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

## GET Enrollment Deadlines

### Description

<table>
<thead>
<tr>
<th>Service:</th>
<th>SSR_ENROLLMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation:</td>
<td>SSR_STDYLST_DEADLINES: Retrieve details of class deadlines</td>
</tr>
<tr>
<td>Summary:</td>
<td>Allows the student to view class deadlines information</td>
</tr>
</tbody>
</table>
Description: After invoking the Get Enrollment service operation, the UI can invoke the Studylist Deadlines service operation to retrieve the class deadline details. Input to this service operation comes from the response of the Get Enrollment operation. The operation can process multiple deadlines request and respond with multiple deadlines details.

Users: Student

Processing: This service operation performs the following steps:

1. Validates input parameters
2. Use the DeadLines entity to retrieve and populate Class Deadline details.
3. Prepare response message containing the Class Deadline details.

Output: Response message containing the Class Deadline details is sent back to the user.

Error Conditions: The following conditions result in a service error:

- Validation error due to invalid request parameters.

Input Message: SSR_STUDYLIST_DEADLINES_REQ

The following diagram shows the input message structure:

![Input Message Diagram](image.png)

Figure 3: SSR_STUDYLIST_DEADLINES_REQ Message Structure

The following input parameters are mandatory for the user interface to pass to the service operation:

- Emplid
- Institution
- Academic Career
- Term
- Academic Program
- Course ID
- Course Offering Nbr
- Session
- Class Section

The following is an example of the SSR_STUDYLIST_DEADLINES_REQ message that the SSR_STUDYLIST_DEADLINES service operation receives from the UI:

```xml
<?xml version="1.0"?>
<SSR_STUDYLIST_DEADLINES_REQ xmlns = "http://xmlns.oracle.com/Enterprise/HCM/services">
  <STUDYLIST_DEADLINE>
    <SCCENTITY_INST_ID>ITEM ROW 1</SCCENTITY_INST_ID>
    <EMPLID>SR13424</EMPLID>
    <ACAD_CAREER>UGRD</ACAD_CAREER>
    <INSTITUTION>PSUNV</INSTITUTION>
    <STRM>0620</STRM>
    <ACAD_PROG>LAU</ACAD_PROG>
  </STUDYLIST_DEADLINE>
</SSR_STUDYLIST_DEADLINES_REQ>
```
<CRSE_ID>001205</CRSE_ID>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<SESSION_CODE>1</SESSION_CODE>
<Class_SECTION>1</Class_SECTION>
</STUDYLIST_DEADLINE>
<STUDYLIST_DEADLINE>
<SCC_ENTITY_INST_ID>ITEM ROW 2</SCC_ENTITY_INST_ID>
<EMPLID>SR13424</EMPLID>
<ACAD_CAREER>UGRD</ACAD_CAREER>
<INSTITUTION>PSUNV</INSTITUTION>
<STRM>0620</STRM>
<ACAD_PROG>LAU</ACAD_PROG>
<CRSE_ID>003318</CRSE_ID>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<SESSION_CODE>1</SESSION_CODE>
<Class_SECTION>1</Class_SECTION>
</STUDYLIST_DEADLINE>
<STUDYLIST_DEADLINE>
<SCC_ENTITY_INST_ID>ITEM ROW 3</SCC_ENTITY_INST_ID>
<EMPLID>SR13424</EMPLID>
<ACAD_CAREER>UGRD</ACAD_CAREER>
<INSTITUTION>PSUNV</INSTITUTION>
<STRM>0620</STRM>
<ACAD_PROG>LAU</ACAD_PROG>
<CRSE_ID>003326</CRSE_ID>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<SESSION_CODE>1</SESSION_CODE>
<Class_SECTION>1</Class_SECTION>
</STUDYLIST_DEADLINE>
<STUDYLIST_DEADLINE>
<SCC_ENTITY_INST_ID>ITEM ROW 4</SCC_ENTITY_INST_ID>
<EMPLID>SR13424</EMPLID>
<ACAD_CAREER>UGRD</ACAD_CAREER>
<INSTITUTION>PSUNV</INSTITUTION>
<STRM>0620</STRM>
<ACAD_PROG>LAU</ACAD_PROG>
<CRSE_ID>003552</CRSE_ID>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<SESSION_CODE>1</SESSION_CODE>
<Class_SECTION>1</Class_SECTION>
</STUDYLIST_DEADLINE>
</SSR_STUDYLIST_DEADLINES_REQ>

Output Message: SSR_STUDYLIST_DEADLINES_RESP

When the Integration Broker receives the SSR_STUDYLIST_DEADLINES_REQ message, it responds with the SSR_STUDYLIST_DEADLINES_RESP message the structure of which is shown below.

```
<schema>
  targetNamespace=http://xmlns.oracle.com/Enterprise/HCM/services
  <include>
    schemaLocation=SCC_ENTITY_DEADLINES_RESP.V1.xsd
  </include>
</schema>
```
The following is an example of the SSR_STUDYLIST_DEADLINES_RESP message that the SSR_STUDYLIST_DEADLINES service operation transmits to the UI:

```
<?xml version="1.0"?>
<SSR_STUDYLIST_DEADLINES_RESP xmlns = "http://xmlns.oracle.com/Enterprise/HCM/services">
  <STUDYLIST_DEADLINE>
    <START_DT>2009-01-24</START_DT>
    <END_DT>2009-05-08</END_DT>
    <LST_DROP_DT_DEL>2009-01-23</LST_DROP_DT_DEL>
    <LST_DROP_DT_RET>2009-02-07</LST_DROP_DT_RET>
    <LST_DROP_DT_PEN>2009-02-14</LST_DROP_DT_PEN>
    <LST_DROP_DT_PEN_2>2009-02-21</LST_DROP_DT_PEN_2>
    <LST_WD_WO_PEN_DT>2009-02-07</LST_WD_WO_PEN_DT>
    <LST_WD_W_PEN_DT>2009-02-14</LST_WD_W_PEN_DT>
    <LST_WD_W_PEN2_DT>2009-02-21</LST_WD_W_PEN2_DT>
    <LST_CANCEL_DT>2009-01-24</LST_CANCEL_DT>
    <SSR_DYNLD_LDRP_DT></SSR_DYNLD_LDRP_DT>
    <LST_DROP_DT_DEL_DESCR>A class dropped on or before this date will be deleted from your academic record.</LST_DROP_DT_DEL_DESCR>
    <LST_DROP_DT_RET_DESCR>A class dropped on or before this date will be retained on your academic record with a status of dropped.</LST_DROP_DT_RET_DESCR>
    <LST_DROP_DT_PEN_DESCR>A class dropped on or before this date will appear on your transcript and a penalty grade will be assigned to the class.</LST_DROP_DT_PEN_DESCR>
    <LST_DROP_DT_PEN_2_DESCR>Last date to drop. A class dropped on or before this date will appear on your transcript and a severe penalty grade will be assigned to the class.</LST_DROP_DT_PEN_2_DESCR>
    <SSR_DYNLD_LDRP_DT_DESCR></SSR_DYNLD_LDRP_DT_DESCR>
    <LST_CANCEL_DT_DESCR>Classes within a session, canceled on or before this date will not appear on your transcript.</LST_CANCEL_DT_DESCR>
    <LST_WD_WO_PEN_DT_DESCR>Classes within a session, withdrawn on or before this date will not appear on your transcript.</LST_WD_WO_PEN_DT_DESCR>
    <LST_WD_W_PEN_DT_DESCR>Classes within a session, withdrawn on or before this date will appear on your transcript and a penalty grade will be assigned to the classes.</LST_WD_W_PEN_DT_DESCR>
    <LST_WD_W_PEN2_DT_DESCR>Last day to withdraw from a session. Classes within a session, withdrawn on or before this date will appear on your transcript and a severe penalty grade will be assigned to the classes.</LST_WD_W_PEN2_DT_DESCR>
    <CLASS_DESCR>History of World Art</CLASS_DESCR>
    <CLASS_NBR>1008</CLASS_NBR>
    <SUBJECT>ART</SUBJECT>
    <CATALOG_NBR>113</CATALOG_NBR>
  </STUDYLIST_DEADLINE>
</SSR_STUDYLIST_DEADLINES_RESP>
```
A class dropped on or before this date will be deleted from your academic record.

A class dropped on or before this date will be retained on your academic record with a status of dropped.

A class dropped on or before this date will appear on your transcript and a penalty grade will be assigned to the class.

Last date to drop. A class dropped on or before this date will appear on your transcript and a severe penalty grade will be assigned to the class.

Classes within a session, canceled on or before this date will not appear on your transcript.

Classes within a session, withdrawn on or before this date will not appear on your transcript.

Classes within a session, withdrawn on or before this date will appear on your transcript and a penalty grade will be assigned to the classes.

Last day to withdraw from a session. Classes within a session, withdrawn on or before this date will appear on your transcript and a severe penalty grade will be assigned to the classes.
<STUDYLIST_DEADLINE>
 <START_DT>2009-01-24</START_DT>
 <END_DT>2009-05-08</END_DT>
 <LST_DROP_DT_DEL>2009-01-23</LST_DROP_DT_DEL>
 <LST_DROP_DT_RET>2009-02-07</LST_DROP_DT_RET>
 <LST_DROP_DT_PEN>2009-02-14</LST_DROP_DT_PEN>
 <LST_DROP_DT_PEN_2>2009-02-21</LST_DROP_DT_PEN_2>
 <LST_WD_WO_PEN_DT>2009-02-07</LST_WD_WO_PEN_DT>
 <LST_WD_W_PEN_DT>2009-02-14</LST_WD_W_PEN_DT>
 <LST_WD_W_PEN2_DT>2009-02-21</LST_WD_W_PEN2_DT>
 <LST_CANCEL_DT>2009-01-24</LST_CANCEL_DT>
 <SSR_DYN_DLDRP_DT>2009-01-24</SSR_DYN_DLDRP_DT>
 <LST_DROP_DT_DEL_DESCR>A class dropped on or before this date will be deleted from your academic record.</LST_DROP_DT_DEL_DESCR>
 <LST_DROP_DT_RET_DESCR>A class dropped on or before this date will be retained on your academic record with a status of dropped.</LST_DROP_DT_RET_DESCR>
 <LST_DROP_DT_PEN_DESCR>A class dropped on or before this date will appear on your transcript and a penalty grade will be assigned to the class.</LST_DROP_DT_PEN_DESCR>
 <LST_DROP_DT_PEN_2_DESCR>Last date to drop. A class dropped on or before this date will appear on your transcript and a severe penalty grade will be assigned to the class.</LST_DROP_DT_PEN_2_DESCR>
 <SSR_DYN_DLDRP_DT_DESCR>Classes within a session, canceled on or before this date will not appear on your transcript.</SSR_DYN_DLDRP_DT_DESCR>
 <LST_WD_WO_PEN_DT_DESCR>Classes within a session, withdrawn on or before this date will not appear on your transcript.</LST_WD_WO_PEN_DT_DESCR>
 <LST_WD_W_PEN_DT_DESCR>Classes within a session, withdrawn on or before this date will appear on your transcript and a penalty grade will be assigned to the classes.</LST_WD_W_PEN_DT_DESCR>
 <LST_WD_W_PEN2_DT_DESCR>Last day to withdraw from a session. Classes within a session, withdrawn on or before this date will appear on your transcript and a severe penalty grade will be assigned to the classes.</LST_WD_W_PEN2_DT_DESCR>
 <CLASS_DESCR>Topics in Math</CLASS_DESCR>
 <CLASS_NBR>1326</CLASS_NBR>
 <SUBJECT>MATH</SUBJECT>
 <CATALOG_NBR>435</CATALOG_NBR>
 </STUDYLIST_DEADLINE>
</SSR_STUDYLIST_DEADLINES_RESP>

Fault: SCC_FAULT_RESP

Refer to the SCC_FAULT_RESP message example in the GET studylist section.
Course Catalog Web Service Operations

Service Name: **SSR_COURSE**

Course Catalog Web Service offers functionality in the following areas:

- **Course Catalog Search:**
  
  This operation enables a student to
  
  - Browse the Campus Solutions Course Catalog.
  - View detail on individual Course Offerings.

**BROWSE Course Catalog**

**Description**

<table>
<thead>
<tr>
<th>Service:</th>
<th>SSR_COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation:</td>
<td>SSR_GET_COURSES: Browse Course Catalog</td>
</tr>
<tr>
<td>Summary:</td>
<td>Allows the student to initiate searches against the Student Records Course Catalog using a number of criteria. Matching course results returned from this search can be further processed using other services such as Class Search.</td>
</tr>
<tr>
<td>Description:</td>
<td>The Browse Course Catalog service can be used to retrieve matches in one of two different modes, Subject Header or Course Detail. When used in Subject Header mode the returned matches are summarized and only Subject header information is returned. This mode is useful when presenting results to a student in a hierarchical summary display. It also has the performance benefit of not returning complete course detail for all matching courses on the initial search. When used in Course Detail mode the returned matches contain further course detail. Each match will include a full course summary. If further detailed information is required for a particular course then that information can be obtained via the Retrieve Course Offering Detail (SSR_GET_COURSE_OFFERING) service detailed in this document.</td>
</tr>
<tr>
<td>Users:</td>
<td>Student</td>
</tr>
</tbody>
</table>

The values for SSR_CRS_SRCH_MODE parameter are ‘H’ and ‘D’ for subject header and course details modes respectively.
Processing | This service operation performs the following steps:
---|---
1. Verify required input parameters exist
2. If no AS OF DATE is supplied then the current date is used as a default
3. Perform prompt edit validations on the input parameters
4. Use the CourseSearchResult entity and the input parameters to execute the course search
5. Prepare the response message containing the matching results

Output: | A list of zero or more matches is returned to the user.
Error Conditions: | The following conditions result in a service error:
---|---
- The supplied input parameters are invalid

**Input Message:** SSR_GET_COURSES_REQ

The following diagram shows the input message structure that the SSR_GET_COURSES_REQ service operation receives from an Enrollment UI:

![Diagram of SSR_GET_COURSES_REQ Message Structure](https://example.com/diagram.png)

**Figure 5: SSR_GET_COURSES_REQ Message Structure**

The following input parameters are required for the Enrollment application to pass to the service operation:

- Institution (INSTITUTION)*
- Search Character (SSR_ALPHANUM)
- Subject (SUBJECT)
- Search Mode (SSR_CRS_SRCH_MODE)
- As of Date (ASOFDATE)

The parameters that are marked with an asterisk (*) are mandatory.
The following is an example of the SSR_GET_COURSES_REQ message that the SSR_GET_COURSES service operation receives from the UI:

```xml
<?xml version="1.0"?>
<SSR_GET_COURSES_REQ>
    <COURSE_SEARCH_REQUEST>
        ...</COURSE_SEARCH_REQUEST>
</SSR_GET_COURSES_REQ>
```
Output Message: **SSR_GET_COURSES_RESP**

When the Integration Broker receives the SSR_GET_COURSES_REQ message, it responds with the SSR_GET_COURSES_RESP message.

The following diagram shows the output message structure that the SSR_GET_COURSES service operation passes to the UI:

![Message Structure Diagram](image)

**Figure 6: SSR_GET_COURSES_RESP Message Structure**

The following is an example of the SSR_GET_COURSES_RESP message that the SSR_GET_COURSES service operation transmits to the UI:

```xml
<?xml version="1.0"?>
<SSR_GET_COURSES_RESP>
  <COURSE_SEARCH_RESULT>
    <SSR_CRS_GEN_MSG/>
    <SSR_CRS_SRCH_COUNT>5</SSR_CRS_SRCH_COUNT>
    <SUBJECTS>
      <SUBJECT>
        <INSTITUTION>PSUNV</INSTITUTION>
        <INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
        <SUBJECT>STATS</SUBJECT>
        <SUBJECT_LOVDescr>Statistics</SUBJECT_LOVDescr>
        <SUBJECT_CRS_COUNT>5</SUBJECT_CRS_COUNT>
      </SUBJECT>
    </SUBJECTS>
    <COURSE_SUMMARIES>
      <COURSE_SUMMARY>
      </COURSE_SUMMARY>
    </COURSE_SUMMARIES>
  </COURSE_SEARCH_RESULT>
</SSR_GET_COURSES_RESP>
```
<CRSE_ID>001151</CRSE_ID>
<CRSE_ID_LOVDescr>Introductory Statistics</CRSE_ID_LOVDescr>
<EFFDT>1990-05-19</EFFDT>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
<SUBJECT>STATS</SUBJECT>
<SUBJECT_LOVDescr>Statistics</SUBJECT_LOVDescr>
<CATALOG_NBR>100</CATALOG_NBR>
<COURSE_TITLE_LONG>Introductory Statistics</COURSE_TITLE_LONG>
<SSR_CRSE_TYPOFF_CD/>
<SSR_CRSE_TYPOFF_CD_LOVDescr/>
<MSG_TEXT/>
<MULTI_OFF>N</MULTI_OFF>
<COURSE_OFF_SUMMARIES/>
</COURSE_SUMMARY>

<COURSE_SUMMARY>
<CRSE_ID>667390</CRSE_ID>
<CRSE_ID_LOVDescr>Statistical Analysis I</CRSE_ID_LOVDescr>
<EFFDT>1900-01-01</EFFDT>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
<SUBJECT>STATS</SUBJECT>
<SUBJECT_LOVDescr>Statistics</SUBJECT_LOVDescr>
<CATALOG_NBR>101</CATALOG_NBR>
<COURSE_TITLE_LONG>Statistical Analysis I</COURSE_TITLE_LONG>
<SSR_CRSE_TYPOFF_CD/> 
<SSR_CRSE_TYPOFF_CD_LOVDescr/>
<MSG_TEXT/>
<MULTI_OFF>N</MULTI_OFF>
<COURSE_OFF_SUMMARIES/>
</COURSE_SUMMARY>

<COURSE_SUMMARY>
<CRSE_ID>001011</CRSE_ID>
<CRSE_ID_LOVDescr>Applied Statistics</CRSE_ID_LOVDescr>
<EFFDT>1980-01-07</EFFDT>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
<SUBJECT>STATS</SUBJECT>
<SUBJECT_LOVDescr>Statistics</SUBJECT_LOVDescr>
<CATALOG_NBR>115</CATALOG_NBR>
<COURSE_TITLE_LONG>Applied Statistics</COURSE_TITLE_LONG>
<SSR_CRSE_TYPOFF_CD/>
<SSR_CRSE_TYPOFF_CD_LOVDescr/>
<MSG_TEXT/>
<MULTI_OFF>N</MULTI_OFF>
<COURSE_OFF_SUMMARIES/>
</COURSE_SUMMARY>

<COURSE_SUMMARY>
<CRSE_ID>001152</CRSE_ID>
<CRSE_ID_LOVDescr>Statistics 200</CRSE_ID_LOVDescr>
<EFFDT>1990-05-19</EFFDT>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
<SUBJECT>STATS</SUBJECT>
<SUBJECT_LOVDescr>Statistics</SUBJECT_LOVDescr>
<CATALOG_NBR>200</CATALOG_NBR>
<COURSE_TITLE_LONG>Statistics 200</COURSE_TITLE_LONG>
<SSR_CRSE_TYPOFF_CD/>

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Fault: SCC_FAULT_RESP

Refer to the SCC_FAULT_RESP message example in the GET Studylist section.

RETRIEVE Course Offering Detail

Description

<table>
<thead>
<tr>
<th>Service:</th>
<th>SSR_COURSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation:</td>
<td>SSR_GET_COURSE_OFFERING: Retrieve the detail for a Course Offering</td>
</tr>
<tr>
<td>Summary:</td>
<td>Allows the student to obtain detailed information associated with a Course. Course offering details returned from this service operation can be further processed using other services such as Class Search.</td>
</tr>
<tr>
<td>Description:</td>
<td>The SSR_GET_COURSE_OFFERING service operation can be used to get the Course offering details in the context of the Browse Course service operation (SSR_GET_COURSES). The Course ID and Offer Number from the Browse Course service operation is used for the request parameters for getting the Course Offering details for a selected Subject and Course combination. The Operation returns the Course Details along with the Terms Offered for the particular Course. The user can then continue the Class Search for one of the Terms Offered.</td>
</tr>
<tr>
<td>Users:</td>
<td>Student</td>
</tr>
</tbody>
</table>
Processing: This service operation performs the following steps:

1. Verify required input parameters exist.
2. If no AS OF DATE is supplied then the current date is used as a default.
3. Perform prompt edit validations on the input parameters.
4. Use the CourseOfferingDetailResult entity and the input parameters to get the course offering details.
5. Prepare the response message with the course offering details.

Output: Course Details along with the Terms Offered for a particular Course.

Error Conditions: The following condition results in an error from the service:

- The supplied input parameters are invalid

Input
Message: SSR_GET_COURSE_OFFERING_REQ

The following diagram shows the input message structure that the SSR_GET_COURSE_OFFERING service operation receives from the UI:

```
<schema>
    targetNamespace http://xmlns.oracle.com/Enterprise/HCM/services
    <include>
        schemaLocation SCG_ENTITY_COURSE_OFFERING_REQ.V1.xsd
        <extensionElement name="SSR_GET_COURSE_OFFERING_REQ" abstract="true"/>
    </include>
</schema>
```

```
<schema>
    targetNamespace http://xmlns.oracle.com/Enterprise/HCM/services
    <include>
        <extensionElement name="COURSE_OFFERING_REQUEST" abstract="true"/>
    </include>
</schema>
```

Figure 7: SSR_GET_COURSE_OFFERING_REQ Message Structure

The service operation accepts the following parameters:

- Institution (INSTITUTION)*
- Course ID (CRSE_ID)*
- Course Offer Number (CRSE_OFFER_NBR)*
- Course Topic ID (CRS_TOPIC_ID)
- As of Date (ASOFDATE)

The parameters marked with * are mandatory parameters.

The following is an example of the SSR_GET_COURSE_OFFERING_REQ message that the SSR_GET_COURSE_OFFERING service operation receives from UI:

```xml
<?xml version="1.0"?>
<SSR_GET_COURSE_OFFERING_REQ>
```

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**Output Message: SSR_GET_COURSE_OFFERING_RESP**

When the Integration Broker receives the SSR_GET_COURSE_OFFERING_REQ message, it responds with the SSR_GET_COURSE_OFFERING_RESP message.

The following diagram shows the output message structure that the SSR_GET_COURSE_OFFERING service operation passes to the UI:

---

**Figure 8: SSR_GET_COURSE_OFFERING_RESP Message Structure**

The following is an example of the SSR_GET_COURSE_OFFERING_RESP message that the SSR_GET_COURSE_OFFERING service operation transmits to the UI:

```xml
<?xml version="1.0"?>
<SSR_GET_COURSE_OFFERING_RESP>
    <COURSE_OFFERING_RESULT>
        <!-- Example content here -->
    </COURSE_OFFERING_RESULT>
</SSR_GET_COURSE_OFFERING_RESP>
```
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>

<OBJECT>
<OBJECTloon>Subject</OBJECTloon>
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>Sociology</INSTITUTION_LOVDescr>

<OBJECT>
<OBJECTloon>Course</OBJECTloon>
<CATALOG_NBR>601</CATALOG_NBR>
</OBJECTloon>

<OBJECTloon>Course Title</OBJECTloon>
<OBJECTloon>LONG</OBJECTloon>
<COURSE_TITLE_LONG>Human Information Processing</COURSE_TITLE_LONG>

<OBJECTloon> Units Minimum</OBJECTloon>
<UNITS_MINIMUM>3</UNITS_MINIMUM>

<OBJECTloon> Units Maximum</OBJECTloon>
<UNITS_MAXIMUM>3</UNITS_MAXIMUM>

<OBJECTloon> Grading Basis</OBJECTloon>
<GRADING_BASIS>GRD</GRADING_BASIS>
<GRADING_BASIS_LOVDescr>Graded</GRADING_BASIS_LOVDescr>

<OBJECTloon> Consent</OBJECTloon>
<CONSENT>N</CONSENT>
<CONSENT_LOVDescr>No Special Consent Required</CONSENT_LOVDescr>

<OBJECTloon> SSR Drop Consent</OBJECTloon>
<SSR_DROP_CONSENT>N</SSR_DROP_CONSENT>
<SSR_DROP_CONSENT_LOVDescr>No Special Consent Required</SSR_DROP_CONSENT_LOVDescr>

<OBJECTloon> Academic Career</OBJECTloon>
<ACAD_CAREER>GRAD</ACAD_CAREER>
<ACAD_CAREER_LOVDescr>Graduate</ACAD_CAREER_LOVDescr>

<OBJECTloon> Term Offered</OBJECTloon>
<CRSE_ID>003080</CRSE_ID>
<CRSE_ID_LOVDescr>Humn Info Process</CRSE_ID_LOVDescr>
<SSR_COMPONENT>LEC</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Lecture</SSR_COMPONENT_LOVDescr>

<OBJECTloon> Term Offered</OBJECTloon>
<CRSE_ID>003080</CRSE_ID>
<CRSE_ID_LOVDescr>Humn Info Process</CRSE_ID_LOVDescr>
<SSR_COMPONENT>SRT</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Session</SSR_COMPONENT_LOVDescr>

<OBJECTloon> Term Offered</OBJECTloon>
<CRSE_ID>003080</CRSE_ID>
<CRSE_ID_LOVDescr>Humn Info Process</CRSE_ID_LOVDescr>
<SSR_COMPONENT>LAB</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Lab</SSR_COMPONENT_LOVDescr>

<OBJECTloon> Term Offered</OBJECTloon>
<CRSE_ID>003080</CRSE_ID>
<CRSE_ID_LOVDescr>Humn Info Process</CRSE_ID_LOVDescr>
<SSR_COMPONENT>TH</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Thesis</SSR_COMPONENT_LOVDescr>
Fault: SCC_FAULT_RESP

Refer to the SCC_FAULT_RESP message example in the GET Studylist section.
Class Search Web Service Operations

Service Name: **SSR_CLASS**

The Class Search Web Service which offers functionality in the following areas:

- **Class Search**:

  This operation enables a student to:
  
  - Search for classes matching certain criteria.
  - View detail on individual Class Sections.

### RETRIEVE Classes

**Description**

<table>
<thead>
<tr>
<th>Service:</th>
<th>SSR_CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation:</td>
<td>SSR_GET_CLASSES: Retrieve Classes</td>
</tr>
<tr>
<td>Summary:</td>
<td>Allows the student to initiate a search of classes and view the search results.</td>
</tr>
</tbody>
</table>
| Description: | The Class search service can be used to search for the classes based on the input search criteria specified by the user. The service operation also takes in additional search criteria as parameters as in the current SS. Along with the class search result, the response also includes the following:  
  SSR_COURSE_COUNT - Count of courses matching the search criteria.  
  SSR_CLASS_COUNT - Count of class section matching the search criteria.  
  SSR_ERR_LMT_EXCEED - Set to Y if search result exceeds error limit specified in the installation table  
  SSR_WRN_LMT_EXCEED - Set to Y if search result exceeds warning limit specified in the installation table and obey_warning_limit in the request payload is set to YES. |
| Users: | Student |

**Processing**

This service operation performs the following steps:

1. Validates input parameters
2. Initiates the class search processing by invoking the appropriate classes under the SSR_CLASS application class
3. Prepare response message containing the class search results

**Output:**

A list of zero or more matches is returned to the user.
Error Conditions: The following conditions result in a service error:

- The supplied input parameters are invalid
- The service operation obeys the Term values setup as defined in the Term Values table. So if the Term is set not to be available for self-service users, then an error message is shown.
- The service operation obeys the Error/Warning limit as set in Student Record Installation set up. If the SSR_CLASS_COUNT is not within the error limit, then an error message is shown in the response.
- If it is not within the warning limit and the Obey Warning Limit in the request is Y, then a warning message is displayed in the response along with the class search results. It is up to the UI to either show or not show the class search results in case of warning.

Input
Message: SSR_GET_CLASSES_REQ

The following diagram shows the SSR_GET_CLASSES_REQ message structure:

```xml
<schema>
  <targetNamespace>http://xmlns.oracle.com/Enterprise/HCM/services</targetNamespace>
  <include/>
  <schemaLocation>SCC_ENTITY_CLASS_SEARCH_REQ_V1.xsd</schemaLocation>
</schema>
```

Figure 9: SSR_GET_CLASSES_REQ Message Structure

The service operation accepts the following parameters:

- INSTITUTION
- TERM
- SUBJECT
- CATALOG NBR
- COURSE CAREER
- CLASS NBR
- COURSE ID
- COURSE OFFERING NBR
- SESSION
- CLASS SECTION
- OPEN ONLY
- OPEN ENTRY/EXIT CLASSES ONLY
- COURSE TITLE KEYWORD
- COURSE COMPONENT
- INSTRUCTION MODE
- CAMPUS
- LOCATION
- MEETING START AND END TIME
The following is an example of the SSR_GET_CLASSES_REQ message that the SSR_GET_CLASSES service operation receives from the UI:

```xml
<?xml version="1.0"?><SSR_GET_CLASSES_REQ xmlns = "http://xmlns.oracle.com/Enterprise/HCM/services">
  <CLASS_SEARCH_REQUEST>
    <INSTITUTION>PSUNV</INSTITUTION>
    <STRM>0430</STRM>
    <CLASS_NBR>0</CLASS_NBR>
    <CRSE_ID></CRSE_ID>
    <CRSE_OFFER_NBR>0</CRSE_OFFER_NBR>
    <SESSION_CODE></SESSION_CODE>
    <CLASS_SECTION></CLASS_SECTION>
    <SUBJECT>PSYCH</SUBJECT>
    <CATALOG_NBR>95</CATALOG_NBR>
    <SSR_EXACT_MATCH1>C</SSR_EXACT_MATCH1>
    <SSR_OPEN_ONLY>Y</SSR_OPEN_ONLY>
    <OEE_IND>N</OEE_IND>
    <DESCR></DESCR>
    <ACAD_CAREER></ACAD_CAREER>
    <SSR_COMPONENT></SSR_COMPONENT>
    <INSTRUCTION_MODE></INSTRUCTION_MODE>
    <CAMPUS></CAMPUS>
    <LOCATION></LOCATION>
    <MEETING_TIME_START></MEETING_TIME_START>
    <MEETING_TIME_END></MEETING_TIME_END>
    <MON>Y</MON>
    <TUES>N</TUES>
    <WED>N</WED>
    <THURS>N</THURS>
    <FRI>N</FRI>
    <SAT>N</SAT>
    <SUN>N</SUN>
    <INCLUDE_CLASS_DAYS>F</INCLUDE_CLASS_DAYS>
    <LAST_NAME></LAST_NAME>
    <SSR_EXACT_MATCH2></SSR_EXACT_MATCH2>
    <UNITS_MINIMUM>0</UNITS_MINIMUM>
    <UNITS_MAXIMUM>0</UNITS_MAXIMUM>
    <SSR_START_TIME_OPR></SSR_START_TIME_OPR>
    <SSR_END_TIME_OPR></SSR_END_TIME_OPR>
    <SSR_UNITS_MIN_OPR></SSR_UNITS_MIN_OPR>
    <SSR_UNITS_MAX_OPR></SSR_UNITS_MAX_OPR>
    <OBEY_WARNING_LIMIT>N</OBEY_WARNING_LIMIT>
  </CLASS_SEARCH_REQUEST>
</SSR_GET_CLASSES_REQ>
```

Output Message: **SSR_GET_CLASSES_RESP**

When the Integration Broker receives the SSR_GET_CLASSES_REQ message, it responds with the SSR_GET_CLASSES_RESP message.

The following diagram shows the SSR_GET_CLASSES_RESP message structure:
The following is an example of the SSR_GET_CLASSES_RESP message that the SSR_GET_CLASSES service operation transmits to the UI:

```xml
<?xml version="1.0"?><SSR_GET_CLASSES_RESP xmlns = "http://xmlns.oracle.com/Enterprise/HCM/services">
  <ERROR_WARN_TEXT/>
  <SSR_COURSE_COUNT>1</SSR_COURSE_COUNT>
  <SSR_ERR_LMT_EXCEED/>
  <SSR_WRN_LMT_EXCEED/>
  <SSR_CLASS_COUNT>9</SSR_CLASS_COUNT>
  <SUBJECTS>
    <SUBJECT>
      <CRSE_ID>007116</CRSE_ID>
      <CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
      <SUBJECT>PSYCH</SUBJECT>
      <CATALOG_NBR>495</CATALOG_NBR>
      <INSTITUTION>PSUNV</INSTITUTION>
      <INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
      <ACAD_CAREER>UGRD</ACAD_CAREER>
    </SUBJECT>
    <SUBJECT>
      <CRSE_ID>007116</CRSE_ID>
      <CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
      <SUBJECT>PSYCH</SUBJECT>
      <CATALOG_NBR>495</CATALOG_NBR>
      <INSTITUTION>PSUNV</INSTITUTION>
      <INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
      <ACAD_CAREER>UGRD</ACAD_CAREER>
    </SUBJECT>
  </SUBJECTS>
</SSR_GET_CLASSES_RESP>
```
<CLASS_SUMMARY>
<CRSE_ID>007116</CRSE_ID>
<CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
<SUBJECT>PSYCH</SUBJECT>
<SUBJECT_LOVDescr>Psychology</SUBJECT_LOVDescr>
<CATALOG_NBR>495</CATALOG_NBR>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<STRM>0430</STRM>
<STRM_LOVDescr>2001 Spring</STRM_LOVDescr>
<SESSION_CODE>1</SESSION_CODE>
<SESSION_CODE_LOVDescr>Regular Academic Session</SESSION_CODE_LOVDescr>
<Class_SECTION>05</CLASS_SECTION>
<Class_NBR>1363</CLASS_NBR>
<SCHEDULE_PRINT>Y</SCHEDULE_PRINT>
<SCHEDULE_PRINT_LOVDescr>Yes</SCHEDULE_PRINT_LOVDescr>
<COMBINED_SECTION></COMBINED_SECTION>
<COMBINED_SECTION_LOVDescr></COMBINED_SECTION_LOVDescr>
<Class_TOPIC></CLASS_TOPIC>
<SSR_CLASSNAME_LONG></SSR_CLASSNAME_LONG>
<STATUS>O</STATUS>
<STATUS_LOVDescr>Open</STATUS_LOVDescr>
<SSR_COMPONENT>LEC</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Lecture</SSR_COMPONENT_LOVDescr>
<Class_MEETING_PATTERNS>
<Class_MEETING_PATTERN>
<SSR_MTG_SCHED_LONG>Tu 11:00AM - 1:30PM</SSR_MTG_SCHED_LONG>
<SSR_MTG_LOC_LONG>King 103</SSR_MTG_LOC_LONG>
<SSR_INSTR_LONG>Patricia Diaz</SSR_INSTR_LONG>
<SSR_MTG_DT_LONG>01/16/2001 - 05/18/2001</SSR_MTG_DT_LONG>
<SSR_TOPIC_LONG>TBA</SSR_TOPIC_LONG>
</CLASS_MEETING_PATTERN>
</CLASS_MEETING_PATTERNS>
</CLASS_SUMMARY>

<CLASS_SUMMARY>
<CRSE_ID>007116</CRSE_ID>
<CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
<SUBJECT>PSYCH</SUBJECT>
<SUBJECT_LOVDescr>Psychology</SUBJECT_LOVDescr>
<CATALOG_NBR>495</CATALOG_NBR>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<STRM>0430</STRM>
<STRM_LOVDescr>2001 Spring</STRM_LOVDescr>
<SESSION_CODE>1</SESSION_CODE>
<SESSION_CODE_LOVDescr>Regular Academic Session</SESSION_CODE_LOVDescr>
<Class_SECTION>05A</CLASS_SECTION>
<Class_NBR>1364</CLASS_NBR>
<SCHEDULE_PRINT>Y</SCHEDULE_PRINT>
<SCHEDULE_PRINT_LOVDescr>Yes</SCHEDULE_PRINT_LOVDescr>
<COMBINED_SECTION></COMBINED_SECTION>
<COMBINED_SECTION_LOVDescr></COMBINED_SECTION_LOVDescr>
<Class_TOPIC></CLASS_TOPIC>
<SSR_CLASSNAME_LONG></SSR_CLASSNAME_LONG>
<STATUS>O</STATUS>
<STATUS_LOVDescr>Open</STATUS_LOVDescr>
<SSR_COMPONENT>LAB</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Laboratory</SSR_COMPONENT_LOVDescr>
<Class_MEETING_PATTERNS>
<Class_MEETING_PATTERN>
<SSR_MTG_SCHED_LONG>Th 11:00AM - 1:30PM</SSR_MTG_SCHED_LONG>
<SSR_MTG_LOC_LONG>TBA</SSR_MTG_LOC_LONG>
<SSR_INSTR_LONG>Patricia Diaz</SSR_INSTR_LONG>
</CLASS_MEETING_PATTERN>
</CLASS_MEETING_PATTERNS>
</CLASS_SUMMARY>
<CLASS_SUMMARY>
<CRSE_ID>007116</CRSE_ID>
<CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
<SUBJECT>PSYCH</SUBJECT>
<SUBJECT_LOVDescr>Psychology</SUBJECT_LOVDescr>
<CATALOG_NBR>495</CATALOG_NBR>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<STRM>0430</STRM>
<STRM_LOVDescr>2001 Spring</STRM_LOVDescr>
<SESSION_CODE>12W</SESSION_CODE>
<SESSION_CODE_LOVDescr>Twelve Week</SESSION_CODE_LOVDescr>
<class_section>06</CLASS_SECTION>
<CLASS_NBR>1365</CLASS_NBR>
<SCHEDULE_PRINT>Y</SCHEDULE_PRINT>
<SCHEDULE_PRINT_LOVDescr>Yes</SCHEDULE_PRINT_LOVDescr>
<COMBINED_SECTION></COMBINED_SECTION>
<COMBINED_SECTION_LOVDescr></COMBINED_SECTION_LOVDescr>
<class_topic></class_topic>
<SSR_CLASSNAME_LONG></SSR_CLASSNAME_LONG>
<STATUS>O</STATUS>
<STATUS_LOVDescr>Open</STATUS_LOVDescr>
<SSR_COMPONENT>LEC</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Lecture</SSR_COMPONENT_LOVDescr>
</CLASS_MEETING_PATTERN>
</CLASSES_MEETING_PATTERNS>
</CLASS_SUMMARY>

<CLASS_SUMMARY>
<CRSE_ID>007116</CRSE_ID>
<CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
<SUBJECT>PSYCH</SUBJECT>
<SUBJECT_LOVDescr>Psychology</SUBJECT_LOVDescr>
<CATALOG_NBR>495</CATALOG_NBR>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<STRM>0430</STRM>
<STRM_LOVDescr>2001 Spring</STRM_LOVDescr>
<SESSION_CODE>12W</SESSION_CODE>
<SESSION_CODE_LOVDescr>Twelve Week</SESSION_CODE_LOVDescr>
<class_section>06A</CLASS_SECTION>
<CLASS_NBR>1366</CLASS_NBR>
<SCHEDULE_PRINT>Y</SCHEDULE_PRINT>
<SCHEDULE_PRINT_LOVDescr>Yes</SCHEDULE_PRINT_LOVDescr>
<COMBINED_SECTION></COMBINED_SECTION>
<COMBINED_SECTION_LOVDescr></COMBINED_SECTION_LOVDescr>
<class_topic></class_topic>
<SSR_CLASSNAME_LONG></SSR_CLASSNAME_LONG>
<STATUS>O</STATUS>
<STATUS_LOVDescr>Open</STATUS_LOVDescr>
<SSR_COMPONENT>LAB</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Laboratory</SSR_COMPONENT_LOVDescr>
</CLASS_MEETING_PATTERN>
</CLASSES_MEETING_PATTERNS>
</CLASS_SUMMARY>
<CLASS_MEETING_PATTERN>
  <SSR_MTG_SCHED_LONG>Fr 3:00PM - 5:30PM</SSR_MTG_SCHED_LONG>
  <SSR_MTG_LOC_LONG>TBA</SSR_MTG_LOC_LONG>
  <SSR_INSTR_LONG>Robert Ellsworth</SSR_INSTR_LONG>
  <SSR_MTG_DT_LONG>01/16/2001 - 04/27/2001</SSR_MTG_DT_LONG>
  <SSR_TOPIC_LONG>TBA</SSR_TOPIC_LONG>
</CLASS_MEETING_PATTERN>

<CLASS_MEETING_PATTERN>
  <SSR_MTG_SCHED_LONG>We 9:00AM - 11:30AM</SSR_MTG_SCHED_LONG>
  <SSR_MTG_LOC_LONG>TBA</SSR_MTG_LOC_LONG>
  <SSR_INSTR_LONG>Hussein Esmail</SSR_INSTR_LONG>
  <SSR_MTG_DT_LONG>01/16/2001 - 04/27/2001</SSR_MTG_DT_LONG>
  <SSR_TOPIC_LONG>TBA</SSR_TOPIC_LONG>
</CLASS_MEETING_PATTERN>
Fault: SCC_FAULT_RESP

Refer to the SCC_FAULT_RESP message example in the GET Enrollment section.
## RETRIEVE Class Section Detail

### Description

<table>
<thead>
<tr>
<th>Service:</th>
<th>SSR_CLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation:</td>
<td>SSR_GET_CLASS_SECTION: Retrieve the detail for a Class Section</td>
</tr>
<tr>
<td>Summary:</td>
<td>Allows the student to search for a particular class section and see the search results. The response includes Class Section, Class Combined Section, Class Component, Class Meeting Pattern, Class Text Books, Enrollment Information</td>
</tr>
<tr>
<td>Description:</td>
<td>The SSR_GET_CLASS_SECTION service operation can be used to perform a search for a particular class section. After the Get Class Search operation is performed, the UI can invoke the Get Class Section operation to retrieve details of the class section. Input to the service operation comes from the output values of the Get Class operation. The operation executes on either of the two class search modes-Class Section or Class Number. If class search mode is Class Section, then the parameters will include • Institution • Course ID • Offer Nbr • Term • Session • Class Section If the class search mode is Class Number then the request will include Term and Class Nbr</td>
</tr>
<tr>
<td>Users:</td>
<td>Student</td>
</tr>
<tr>
<td>Processing:</td>
<td>1. Verify required input parameters exists 2. Use the appropriate classes in SSR_CLASS application package to retrieve the class section details based on the input search criteria. 3. Prepares response message comprising of class section details.</td>
</tr>
<tr>
<td>Output:</td>
<td>Response message containing the class section details is sent back to the user.</td>
</tr>
<tr>
<td>Error Conditions:</td>
<td>The following condition results in an error from the service: • The supplied input parameters are invalid</td>
</tr>
</tbody>
</table>

### Input

**Message:** SSR_GET_CLASS_SECTION_REQ

The following diagram shows the SSR_GET_CLASS_SECTION_REQ message structure:

---

---
The following are the input parameters for the UI to pass to the service operation:

- Institution
- Course ID
- Offer Nbr
- Term
- Session
- Class Nbr
- Class Section
- Class Search Mode

The following is an example of the SSR_GET_CLASS_SECTION_REQ message that the SSR_GET_CLASS_SECTION service operation receives from the UI:

```xml
<?xml version="1.0"?>
<SSR_GET_CLASS_SECTION_REQ xmlns = "http://xmlns.oracle.com/Enterprise/HCM/services">
  <CLASS_SECTION_REQUEST>
    <CRSE_ID>007116</CRSE_ID>
    <CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
    <STRM>0430</STRM>
    <SESSION_CODE>1</SESSION_CODE>
    <CLASS_SECTION>01</CLASS_SECTION>
    <SSR_SEARCH_MODE>S</SSR_SEARCH_MODE>
    <SSR_INCLUD_CLS_SET></SSR_INCLUD_CLS_SET>
    <CLASS_NBR>1297</CLASS_NBR>
    <ACAD_CAREER></ACAD_CAREER>
    <ACAD_PROG></ACAD_PROG>
  </CLASS_SECTION_REQUEST>
</SSR_GET_CLASS_SECTION_REQ>
```

Output Message: SSR_GET_CLASS_SECTION_RESP

When the Integration Broker receives the SSR_GET_CLASS_SECTION_REQ message, it responds with the SSR_GET_CLASS_SECTION_RESP message.

The following diagram shows the SSR_GET_CLASS_SECTION_RESP message structure:
The following is an example of the SSR_GET_CLASS_SECTION_RESP message that the SSR_GET_CLASS_SECTION service operation transmits to the UI:

```xml
<?xml version="1.0"?>
<SSR_GET_CLASS_SECTION_RESP xmlns="http://xmlns.oracle.com/Enterprise/HCM/services">
  <CLASS_SECTION_RESULT>
    <SSR_CRS_SRCH_COUNT>0</SSR_CRS_SRCH_COUNT>
    <SSR_CRS_GEN_MSG></SSR_CRS_GEN_MSG>
  </CLASS_SECTION_RESULT>
  <CLASS_SECTIONS>
    <CLASS_SECTION>
      <ACAD_CAREER>UGRD</ACAD_CAREER>
      <ACAD_CAREER_LOVDescr>Undergraduate</ACAD_CAREER_LOVDescr>
      <ASSOCIATED_CLASS>1</ASSOCIATED_CLASS>
      <AVAILABLE_SEATS>34</AVAILABLE_SEATS>
      <CAMPUS>MAIN</CAMPUS>
      <CAMPUS_LOVDescr>Main Hacienda Campus</CAMPUS_LOVDescr>
      <CATALOG_NBR>495</CATALOG_NBR>
      <CLASS_NBR>1297</CLASS_NBR>
    </CLASS_SECTION>
  </CLASS_SECTIONS>
</SSR_GET_CLASS_SECTION_RESP>
```
<CRS_TOPIC_ID>2</CRS_TOPIC_ID>
<CRSE_ID>007116</CRSE_ID>
<CRSE_ID_LOVDescr>Psychology Special Topics</CRSE_ID_LOVDescr>
<CRSE_OFFER_NBR>1</CRSE_OFFER_NBR>
<DESCR200>PSYCH 495 - 01  Psychology Special Topics</DESCR200>
<DESCRFORMAL></DESCRFORMAL>
<DESCRLONG>An intensive study of a psychological topic which commands the current focus of interest of both the faculty member and the students.</DESCRLONG>
<EFFDT>2001-01-16</EFFDT>
(END_DT>2001-05-05</END_DT>
<ENRL_CAP>35</ENRL_CAP>
<ENRL_STAT>O</ENRL_STAT>
<ENRL_TOT>1</ENRL_TOT>
<GRADING_BASIS>GRD</GRADING_BASIS>
<GRADING_BASIS_LOVDescr>Graded</GRADING_BASIS_LOVDescr>
<INSTITUTION>PSUNV</INSTITUTION>
<INSTITUTION_LOVDescr>PeopleSoft University</INSTITUTION_LOVDescr>
<LOCATION>PSCSHCDA</LOCATION>
<MIN_ENRL>0</MIN_ENRL>
<PRINT_TOPIC></PRINT_TOPIC>
<RQRMNT_GROUP></RQRMNT_GROUP>
<SCHEDULE_PRINT></SCHEDULE_PRINT>
<SESSION_CODE>1</SESSION_CODE>
<SESSION_CODE_LOVDescr>Regular Academic Session</SESSION_CODE_LOVDescr>
/<SSR_CLS_TXB_MSG>
<SSR_CLASSNOTE_LONG>
There will be $25 fee charged for the purchase of psychological testing materials.

This class requires attendance on several field trips. Details will be provided at the first class meeting.
</SSR_CLASSNOTE_LONG>
<SSR_CLS_TXB_TEXT></SSR_CLS_TXB_TEXT>
<SSR_COMPONENT>LEC</SSR_COMPONENT>
<SSR_COMPONENT_LOVDescr>Lecture</SSR_COMPONENT_LOVDescr>
<SSR_CRSE_ATTR_LONG></SSR_CRSE_ATTR_LONG>
<SSR_CRSE_TYPOFF_CD>FALL</SSR_CRSE_TYPOFF_CD>
<SSR_DATE_LONG>1/5/2001 - 5/5/2001</SSR_DATE_LONG>
<SSR_DROP_CONSENT></SSR_DROP_CONSENT>
<SSR_GBL_NOTE_LONG>
All senior psychology majors are required to enroll in the senior seminar.
</SSR_GBL_NOTE_LONG>
<SSR_GBL NOTE LONG>
All Psychology majors are required to meet with an advisor prior to registration.
</SSR_GBL NOTE LONG>
<SSR_REQUIREMENTS></SSR_REQUIREMENTS>
<START_DT>2001-01-05</START_DT>
<STRM>0430</STRM>
<STRM_LOVDescr>2001 Spring</STRM_LOVDescr>
<SUBJECT>PSYCH</SUBJECT>
<SUBJECT_LOVDescr>Psychology</SUBJECT_LOVDescr>
<UNITS_RANGE>2 - 3 units</UNITS_RANGE>
<WAIT_TOT>0</WAIT_TOT>
<WAIT_CAP>20</WAIT_CAP>
<LOCATION_DESCR>Hacienda</LOCATION_DESCR>
<ENRL_STATUS_DESCR>Open</ENRL_STATUS_DESCR>
Research Methods in Psych

LEC (1297)

PSYCH 495-01

LEC (1676)

PSYCH 295-1

LEC (1677)

PSYCH 595-1

Discussion (DIS)

Laboratory (LAB)

Lecture (LEC)
<SSR_MTG_SCHED_LONG>MoWeFr 8:00AM - 8:50AM</SSR_MTG_SCHED_LONG>
<SSR_MTG_LOC_LONG>King 100</SSR_MTG_LOC_LONG>
<SSR_INSTR_LONG>
Mara Baylor,
Michael Fromm
</SSR_INSTR_LONG>
<SSR_MTG_DT_LONG>01/05/2001 - 02/05/2001</SSR_MTG_DT_LONG>
<SSR_TOPIC_LONG>TBA</SSR_TOPIC_LONG>
</CLASS_MEETING_PATTERN>

<CLASS_MEETING_PATTERN>
<SSR_MTG_SCHED_LONG>Mo 8:30AM - 11:00AM</SSR_MTG_SCHED_LONG>
<SSR_MTG_LOC_LONG>King 101</SSR_MTG_LOC_LONG>
<SSR_INSTR_LONG>Cynthia Forman</SSR_INSTR_LONG>
<SSR_MTG_DT_LONG>02/06/2001 - 05/05/2001</SSR_MTG_DT_LONG>
<SSR_TOPIC_LONG>Group Research Projects</SSR_TOPIC_LONG>
</CLASS_MEETING_PATTERN>
</CLASS_MEETING_PATTERNS>

<TEXT_BOOKS>
<TEXT_BOOK>
<SSR_CLS_TXB_NONE>N</SSR_CLS_TXB_NONE>
<SSR_CLS_TXB_STATUS>C</SSR_CLS_TXB_STATUS>
<SSR_CLS_TXB_STATUS_LOVDescr>Textbook entry complete</SSR_CLS_TXB_STATUS_LOVDescr>
<SSR_CLS_TXB_TEXT>Read the 1st chapter in PSYCH Special Topics Textbook 1 for the first class and be prepared to discuss.</SSR_CLS_TXB_TEXT>
</TEXT_BOOK_MESSAGE>
</TEXT_BOOK>
<TEXT_BOOK>
<SSR_CLS_TXB_NONE_DESCR></SSR_CLS_TXB_NONE_DESCR>
</TEXT_BOOKS_DETAILS>
</TEXT_BOOK_DETAILS>
<TEXT_BOOK>
<SSR_CRS_MAT_TYPE>TEXTBOOK</SSR_CRS_MAT_TYPE>
<SSR_CRS_MAT_TYPE_LOVDescr>Textbook</SSR_CRS_MAT_TYPE_LOVDescr>
<SSR_TXBDTL_STATUS>REQ</SSR_TXBDTL_STATUS>
<SSR_TXBDTL_STATUS_LOVDescr>Required</SSR_TXBDTL_STATUS_LOVDescr>
<SSR_TXBDTL_TITLE>PSYCH Special Topics Textbook 1</SSR_TXBDTL_TITLE>
<SSR_TXBDTL_AUTHOR>John Smith, Betty Jones</SSR_TXBDTL_AUTHOR>
<SSR_TXBDTL_PUBLISH>University Press</SSR_TXBDTL_PUBLISH>
<SSR_TXBDTL_EDITION>3rd</SSR_TXBDTL_EDITION>
<SSR_TXBDTL_PUBYEAR>2010</SSR_TXBDTL_PUBYEAR>
<CURRENCY_CD>USD</CURRENCY_CD>
<SSR_TXBDTL_PRICE>56.7</SSR_TXBDTL_PRICE>
<SSR_TXBDTL_NOTES>Order this textbook directly from the publisher</SSR_TXBDTL_NOTES>
</TEXT_BOOK_MESSAGE>
</TEXT_BOOK>
<TEXT_BOOK>
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<SSR_TXBDTL_STATUS>REC</SSR_TXBDTL_STATUS>
<SSR_TXBDTL_STATUS_LOVDescr>Recommended</SSR_TXBDTL_STATUS_LOVDescr>
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<SSR_TXBDTL_AUTHOR>Marta Zoinski</SSR_TXBDTL_AUTHOR>
<SSR_TXBDTL_PUBLISH>McGraw Hil</SSR_TXBDTL_PUBLISH>
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<SSR_TXBDTL_PUBYEAR>2011</SSR_TXBDTL_PUBYEAR>
<CURRENCY_CD>USD</CURRENCY_CD>
<SSR_TXBDTL_PRICE>49</SSR_TXBDTL_PRICE>
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</TEXT_BOOK>
<TEXT_BOOK>
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<SSR_CRS_MAT_TYPE_LOVDescr>Article</SSR_CRS_MAT_TYPE_LOVDescr>
</TEXT_BOOK_DETAILS>
</TEXT_BOOK_DETAILS>
Fault: SCC_FAULT_RESP

Refer to the SCC_FAULT_RESP message example in the GET StudyList section.
Configuration Hints and Tips

This section provides post installation setup recommendations for EWS and additional web service operations. For information about the configuration options on the Campus Solutions pages, refer to the Student Records and Enrollment PeopleBook updates for the AF July 2011.

For the Integration Broker configuration options, refer to the EWS Developer's Guide.

Entity Registry

**Navigation: Set Up SACR > System Administration > Entity > Entity Registry**

The entities for all core data records within the Enrollment and Course areas are delivered within the Entity Registry component. The entity data is considered system data and is necessary for the correct functioning of EWS.

**Recommendations:**

- Register new institution-specific extension entities as children to any entity in the registry. For example, if you want to add an Institution specific Course Information entity to inform the student of additional Course detail, you need to add a new entity Course detail and associate this new entity with an existing parent entity, such as the CourseOfferingDetailResult entity.
- After associating the new entity with a parent entity, you must include the new entity into your PeopleSoft system as a PeopleCode application class. You can either write the code yourself or use the *Generate Code* button to automatically generate a PeopleCode application class template. You can then include your validations in the class template and include the class in your PeopleSoft system using Application Designer.
- When generating code for a new extension entity, select the appropriate code generation options:
  - *Base App Class:* Select if you want to write the code for a staged entity. In general, all extension entities will be of type *Basic Entity.* Basic entity represents an entity that captures data into a single core database table.
  - Note that the entities that you create automatically share their parent entities keys with other entities. This is a referential relationship of 1:Many for parent:child.
- After you create a new entity, select the *Generate XSD* button to generate an XML schema. The Enrollment user interface must use the XSD to communicate with EWS. Using the XSD for the entity is a mandatory step because your Enrollment UI must validate the XML data for an institution-defined entity using the XSD before passing on the XML data to EWS.

Enrollment Configuration

**Recommendations:**

The EWS service operations depend upon a number of existing Campus Solutions system configuration options. The results that these services deliver are controlled by the following Installation and Student Records configuration options:

- Browse course service obeys the ‘Catalog Print’ setup option available in Requirement Designation Table and Course Attributes setups under Set Up SACR > Product Related > Student Records > Curriculum Management. Hence make sure that the ‘Catalog Print’ option is set if required.
  
  See: *PeopleSoft Enterprise Student Records 9.0 PeopleBook, Preparing for the Course Catalog and Schedule of Classes*

- **Class Search**
1. The Get Classes service operation validates the input Term against the data range specified in Term Values table and sends an error if the input term is not within the date range for the term specified under Self-Service Student/Visitor head in the below mentioned navigation. So if Term error is displayed, check the date range in the below mentioned navigation.

   Home>Setup SACR>Foundation Tables>Term Setup>Term Values Table
   <tab: Display in class search>

   ![Term Values Table](image)

2. If search result exceeds error threshold, response will not include any class data and a message indicating this will be sent in the response in the tag `<ERROR_WARN_TEXT>`

3. If search result exceeds warning threshold and obey_warning_limit in the request payload is set to YES, response will include warning message in the tag `<ERROR_WARN_TEXT>` along with any class data and is up to the UI either to show or not show the search results.

See: PeopleSoft Enterprise Campus Solutions 9.0 Application Fundamentals PeopleBook, Establishing Terms and Sessions

- Get StudyList

1. The Get Studylist service operation validates the input Term against the date range specified in Term/Session Table and sends an error back if the input term is not within the date range for the term specified against the “Enrollment & Shopping Cart” head in the “Display in Self Service” group box in the navigation shown below. So if this error is seen, check the date range in the below mentioned navigation.

   Home>Setup SACR>Foundation Tables>Term Setup>Term/Session Table
   <tab: Term Table>
2. If the service operation returns message *You are not registered for classes in this term*, it indicates that the student has not been enrolled for any class and hence the message. Once the student is enrolled, the service operation will retrieve the appropriate enrollment details.

See: *PeopleSoft Enterprise Campus Solutions 9.0 Application Fundamentals PeopleBook, Establishing Terms and Sessions*

### List of Values

Most self-service user interfaces (UIs) constructed outside of your PeopleSoft Campus Solutions system will contain data fields that have predefined or “prompt” values used to control and streamline data entry for the applicant. To use list of values that are defined inside your PeopleSoft Campus Community system, use the List of Values Web Service (SCC_GET_LOV, introduced in Feature Pack 3, July 2010). The service recognizes and provides the values that are used to populate drop-down list boxes on a user interface and for validating selections. The required parameters are the record and the field names you want list of values to be returned. The service operation looks, by default, at the prompt table defined for the desired record and field name to retrieve the values for a field. Optionally, if you want to alter the default way in which the operation picks up the list of values for a field, use the List of Values Setup component (under Set Up SACR > System Administration > Utilities > List Of Values).

See Also: *PeopleSoft Enterprise Campus Community Fundamentals 9.0 PeopleBook, Setting Up List of Values* which is posted to My Oracle Support as part of the Campus Community documentation for Bundle 22. The ID for the My Oracle Support Campus Solutions 9.0 Documentation Home Page is 751540.1.

Examples:

#### Browse Course Service:

In the Browse Course UI, it is possible to use LOV web service to populate the list of institutions available, so that user can select one to pass it to the Get Courses service operation (SSR_GET_COURSES).

For example: User can use the following inputs in the request message to invoke the LOV web service to populate list of institutions.

```
RECORDNAME: SSR_CRS_SRCH_RQ
FIELDNAME : INSTITUTION
```

#### Class Search Service:

In the Class Search UI, it is possible to use LOV web service to populate the list of institutions available, so that user can select one to pass it to the Get Classes service operation (SSR_GET_CLASSES).

For example: User can use the following inputs in the request message to invoke the LOV web service to populate list of institutions.

```
RECORDNAME: SSR_CRS_SRCH_RQ
FIELDNAME : INSTITUTION
```
Similarly, the UI can make use of the LOV web service for the following:

**Term**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : STRM

**Subject**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SUBJECT

**Campus**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : CAMPUS

**Course ID**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : CRSE_ID

**Operator for Catalog Nbr**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_EXACT_MATCH1

**Course Career**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : ACAD_CAREER

**Session**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SESSION_CODE

**Course Component**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_COMPONENT

**Mode of Instruction**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : INSTRUCTION_MODE

**Location**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : LOCATION

**Meeting Start Time**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_START_TIME_OPR

**Meeting End Time**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_END_TIME_OPR

**Day Of Week**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : INCLUDE_CLASS_DAYS

**Instructor Last Name**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_EXACT_MATCH2

**Maximum Units**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_UNITS_MAX_OPR

**Minimum Units**
- RECORDNAME: SSR_CLSSRCH_REQ
- FIELDNAME : SSR_UNITS_MIN_OPR

---

**Get StudyList Service:**

In the UI, it is possible to use LOV web service to populate the list of institutions available, so that user can select one to pass it to the Get Studylist service operation (SSR_GET_ENROLLMENT).

For example: User can use the following inputs in the request message to invoke the LOV web service to populate list of institutions.
Similarly, the UI can make use of the LOV web service for the following:

- **EmplID**
  - RECORDNAME: SSR_STDYLST_WRK
  - FIELDNAME: EMPLID

- **Academic Career**
  - RECORDNAME: SSR_STDYLST_WRK
  - FIELDNAME: ACAD_CAREER

- **Term**
  - RECORDNAME: SSR_STDYLST_WRK
  - FIELDNAME: STRM

**Recommendations:**

- List of Values configuration is not mandatory for all prompts. For example, if the external user interface you use displays the Institution field as a prompt and you want the prompt to show all the Institution values defined inside your Campus Solutions system inside a specific record (the record name you passed as input parameter). By default the LOV web service will return the description values for all the institutions defined inside that record. If this is what you want, you do not need to configure the List of Value Setup component for the record where the Institution field is located.

- You can override the default list of values that is displayed by using the List of Values Setup component to point to a different database table column or use a different description field. For example, suppose you have stored values such as Online and Distance Education. By default, the LOV web service retrieves the description values by scanning the record columns and returning the values for the first field encountered: In order that is DESCR, DESCRSHORT, DESCR30, DESCR100 or the first non-key field marked as a list box item inside the record. If the record you are using includes the DESCR, DESCRSHORT and DESCRFORMAL fields, by default, the LOV web service will return the DESCR values. Rather than providing the Student the values of DESCR, you want the system look at the table column DESCRFORMAL, in this case, you must use List of Values configuration to override the default.

- List of Values configuration supports both Self Service and Administrative usage. The EWS service operations delivered for AF July 2011 support Self Service access only. Administrative access via EWS may be delivered in a future AF pack.
Appendix

Entity Details for EWS

This section provides details of all entities leveraged by EWS.

Browse Course

Service Operation: SSR_GET_COURSES

<table>
<thead>
<tr>
<th>Entity</th>
<th>DB Record</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request Entity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CourseSearchRequest</td>
<td>SSR_CRS_SRCH_RQ</td>
<td>SSR_GET_COURSES_REQ</td>
</tr>
<tr>
<td>Response Entities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CourseSearchResult</td>
<td>SSR_CRS_SRCH_RE</td>
<td>SSR_GET_COURSES_RESP</td>
</tr>
</tbody>
</table>

Entity Hierarchy Display

- CourseSearchResult
  - CourseSubject (0 Unbounded)
    - CourseSummary (0 Unbounded)
    - CourseOfferingSummary (0 Unbounded)

Service Operation: SSR_GET_COURSE_OFFERING

<table>
<thead>
<tr>
<th>Entity</th>
<th>DB Record</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Request Entity</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CourseOfferingDetailRequest</td>
<td>SSR_CRS_OFF_RQ</td>
<td>SSR_GET_COURSE_OFFERING_REQ</td>
</tr>
<tr>
<td>Response Entities</td>
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<td></td>
</tr>
<tr>
<td>CourseOfferingDetailResult</td>
<td>SSR_CRS_OFF_RE</td>
<td>SSR_GET_COURSE_OFFERING_RESP</td>
</tr>
</tbody>
</table>

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Entity Hierarchy Display

- **CourseOfferingDetailResult**
  - **CourseOfferingDetail** (0, Unbounded)
    - **CourseOfferingDerived** (Embedded)
    - **CourseComponentDetail** (0, Unbounded)
    - **CourseAttributesDetail** (0, Unbounded)
    - **CourseOfferingTerm** (0, Unbounded)

---

### Class Search

**Service Operation**: SSR_GET_CLASSES

<table>
<thead>
<tr>
<th>Request Entity</th>
<th>Entity</th>
<th>DB Record</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>ClassSearchRequest</td>
<td>SSR_CLSSRCH_REQ</td>
<td>SSR_CLSSRCH_RES</td>
<td>SSR_GET_CLASSES_RESP</td>
</tr>
</tbody>
</table>

Entity Hierarchy Display

- **ClassSearchResult**
  - **ClassSearchSubject** (0, Unbounded)
    - **ClassSearchSummary** (0, Unbounded)
    - **ClassSectionMeetingPattern** (0, Unbounded)

---

**Service Operation**: SSR_GET_CLASS_SECTION

<table>
<thead>
<tr>
<th>Request Entity</th>
<th>Entity</th>
<th>DB Record</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Section Request</td>
<td>SSR_CLSDTL_RE</td>
<td>SSR_CRS_OFF_RE</td>
<td>SSR_GET_CLASS_SECTION_REQ</td>
</tr>
</tbody>
</table>

| Response Entities | Class Section Result    | SSR_CRS_OFF_RE    | SSR_GET_CLASS_SECTION_RESP    |
Entity Hierarchy Display

- **ClassSectionResult**
  - **ClassSection** (0 Unbounded)
    - **ClassSectionCombined** (0 Unbounded)
    - **ClassSectionComponent** (0 Unbounded)
    - **ClassSectionMeetingPattern** (0 Unbounded)
    - **ClassSectionTextbook** (0 Unbounded)
      - **ClassSectionTextbookDetails** (0 Unbounded)
    - **ClassSectionEnrInfo** (0 Unbounded)

---

**Study List**

**Service Operation: SSR_GET_ENROLLMENT**

<table>
<thead>
<tr>
<th>Request Entity</th>
<th>Entity</th>
<th>DB Record</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Study List</td>
<td>SSR_STDYLST_WRK</td>
<td>SSR_GET_ENROLLMENT_REQ</td>
</tr>
<tr>
<td>Response Entities</td>
<td>Study List</td>
<td>SSR_STDYLST_WRK</td>
<td>SSR_GET_ENROLLMENT_RESP</td>
</tr>
</tbody>
</table>

Entity Hierarchy Display

- **StudyList**
  - **Enrollment Details** (0 Unbounded)
    - **Class Sections** (0 Unbounded)

**Service Operation: SSR_STUDYLST DEADLINES**

<table>
<thead>
<tr>
<th>Request Entity</th>
<th>Entity</th>
<th>DB Record</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Study List DeadLInes</td>
<td>SSR_STUDYLST_WRK</td>
<td>SSR_STUDYLIST_DEADLINES_REQ</td>
</tr>
<tr>
<td>Response Entities</td>
<td>Study List DeadLInes</td>
<td>SSR_STUDYLST_WRK</td>
<td>SSR_STUDYLIST_DEADLINES_RESP</td>
</tr>
</tbody>
</table>