Managing Program Planning and Enrollment

Understanding the Academic Progress Tracker

The Academic Progress Tracker (APT):

- Records the Academic Items (or program requirements/components) that a student accumulates as the student progresses through a program of study.
- Maintains the structure of a student's program requirements (as defined in AIR) so that results can be calculated at user-defined levels and progress can be tracked.
- Provides a user-defined structure of results and statistics (total credits, grade points, and so on) that is not subject to the constraints imposed by the core term based structure which has a strictly defined set of fields.

While APT provides this flexibility, the core Campus Solutions system is still used to manage admission and enrollment. A student still must have a valid Student Records program stack and, for enrollment purposes, a valid term row. In most cases therefore, the APT instance will be built after a person becomes a student (through the core Campus Solutions process).

Linking an APT Instance to the Student Program

If the Enable Program Enrollment check box is selected on the Academic Institution 9 page, the APT Instance and Year of Program fields appear on the Admissions Application Program Data page and the Student Records Program Data page. The check box is deselected by default; you must select the check box to use the Academic Progress Tracker.

See Setting Up for the Academic Progress Tracker

This section discusses how to:

- Create an APT Instance from core Admissions.
- Create an APT Instance from core Student Records.

Related Links

APT API Detail

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Pages Used to Link an APT Instance to the Student Program

Page Name	*Definition Name*	*Navigation*	*Usage*
Application Program Data	ADM_APPL_PROG_ENT ADM_APPL_PROG_MNT	Student Admissions, Application Entry, Add Application, Application Program Data Student Admissions, Application Maintenance, Maintain Applications, Application Program Data	Create an APT instance.
Student Program	STDNT_PROG	Records and Enrollment, Career and Program Information, Student Program/Plan, Student Program	Create an APT instance.

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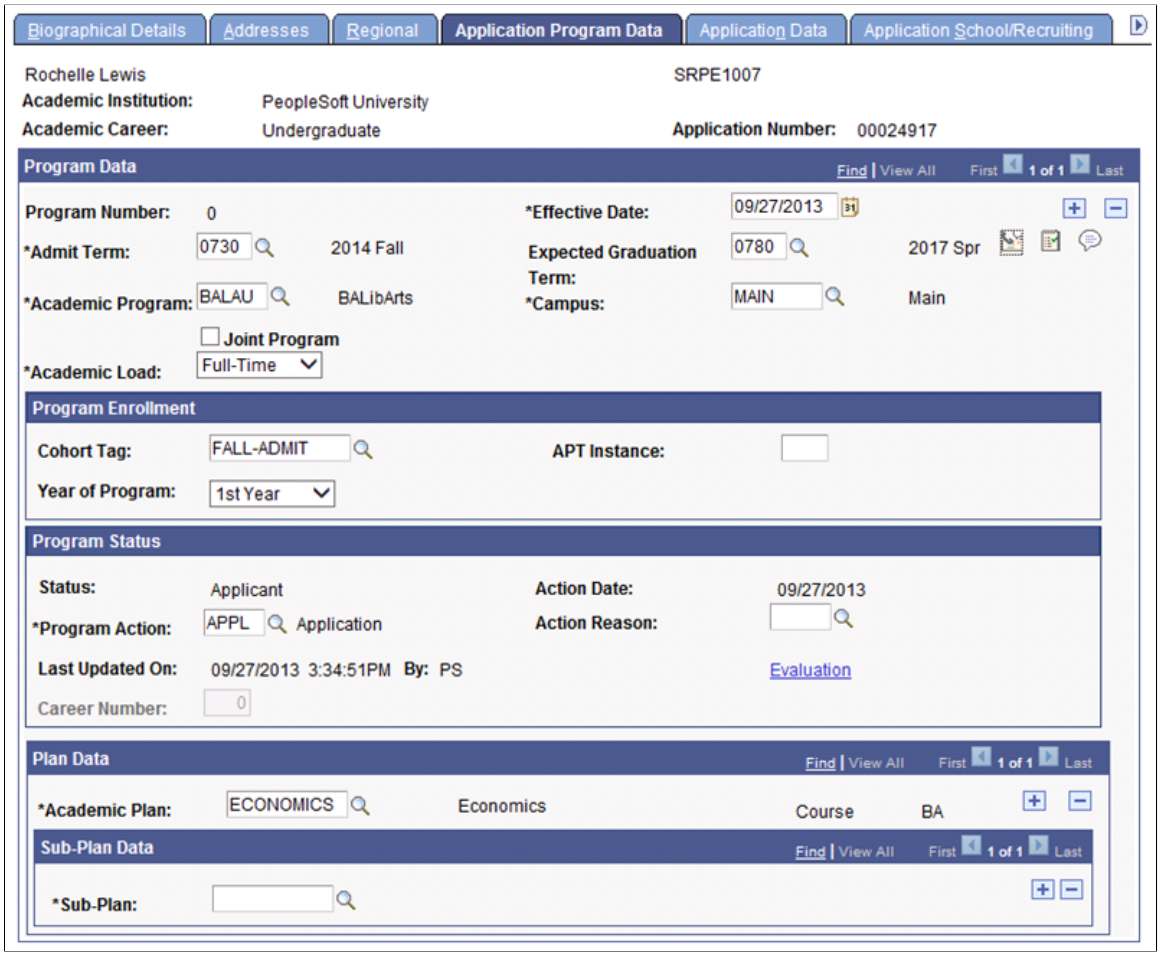
Creating an APT Instance from Admissions

Access the Application Program Data page (Student Admissions, Application Entry, Add Application, Application Program Data).

Image: Application Program Data page example for Program Enrollment

This example illustrates the fields and controls on the Application Program Data page for Program Enrollment. You can find definitions for the fields and controls later on this page.



Cohort Tag

This field appears only if the Enable Program Enrollment check box is selected on the Academic Institution 9 page. This value is obtained in the application process and indicates the point within a term (typically a session) that the applicant is expected to enroll.

APT Instance

This field appears only if the Enable Program Enrollment check box is selected on the Academic Institution 9 page.

Note: The rules governing the generation of the instance at the admission stage and the process to generate the instance are planned for the future.

Year of Program

This field appears only if the Enable Program Enrollment check box is selected on the Academic Institution 9 page.

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This value is obtained in the application process and indicates the student's start point in a program of study, for example, a student could apply as a second year student.

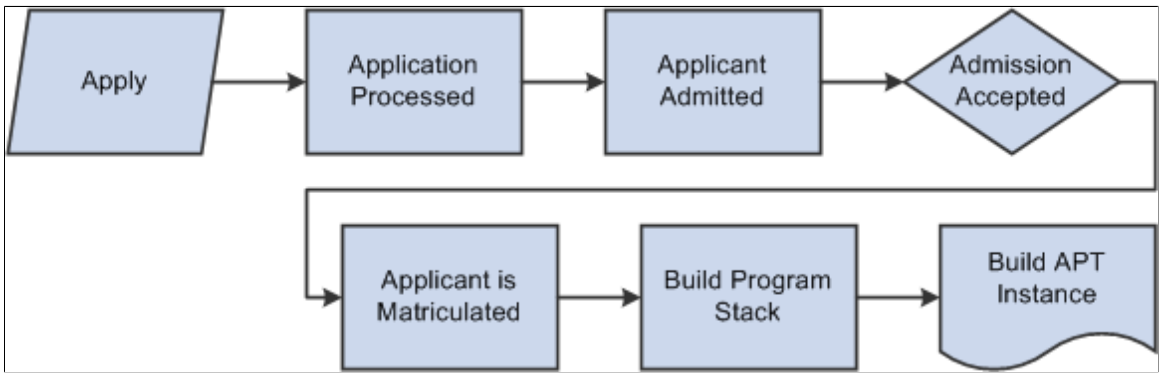
See "Adding New Applications Manually *(PeopleSoft Recruiting and Admissions 9.0 PeopleBook)*"

See Enabling Program Enrollment

Creating an APT Instance from Admissions

Image: Creation of an APT Instance

Creation of an APT Instance:



When the matriculation process creates the Student Records program stack, if a student is in a program/plan/sub-plan combination that is mapped to an AIR program, an API (SSR_APT.API) is called. The API creates an APT instance for the student, linking that instance to the program created by the matriculation process.

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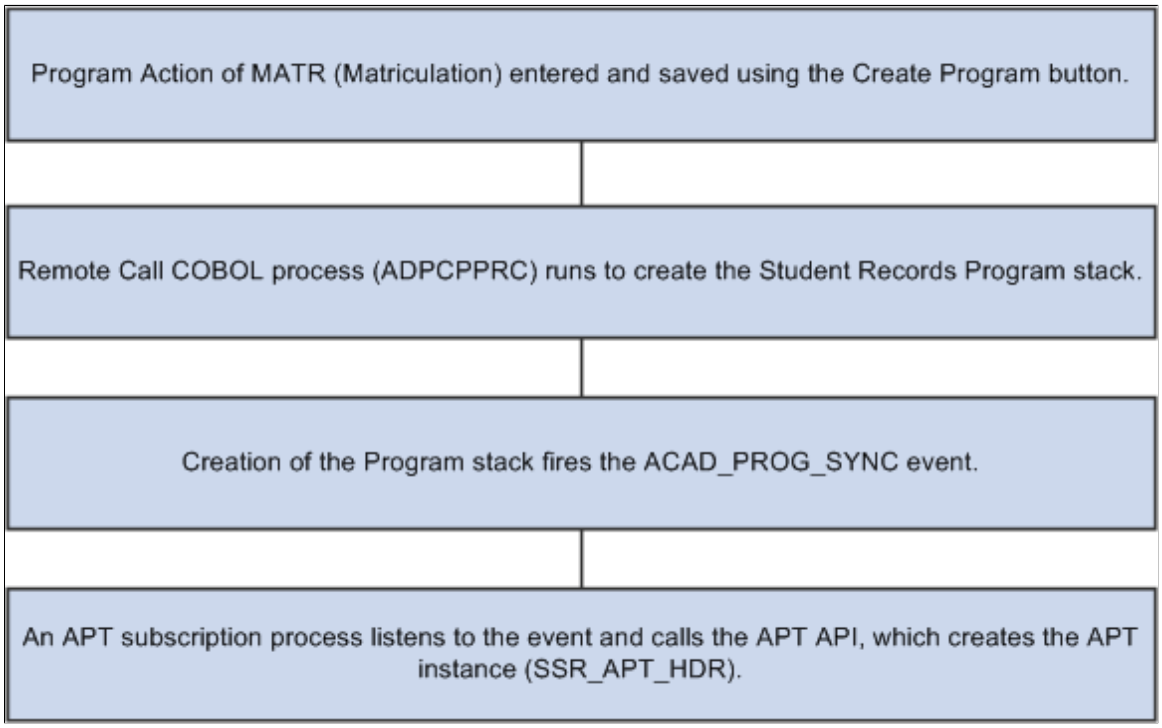
APT Instance Creation from Admissions Application Maintenance Component

An APT instance can be created directly from the Admissions Application Maintenance component when a user creates the student program using the matriculation (MATR) action.

Image: APT Instance Creation from Admissions Application Maintenance Component

The following diagram provides an overview of the processing that takes place:



APT Instance Creation from Admissions Activate Applicants Process

The Admissions Activate Applicants batch process also creates an instance for a student when a mapping exists to an AIR program. When the process (ADPCPPRJ) creates Student Records program stack entries, this action fires the same ACAD_PROG_SYNC event described above. This is detected by the APT subscription service, which in turn calls APT API to build an instance.

See "Understanding How to Evaluate Applicants Using Automatic Processing *(PeopleSoft Recruiting and Admissions 9.0 PeopleBook)*"

Related Links

APT API Detail

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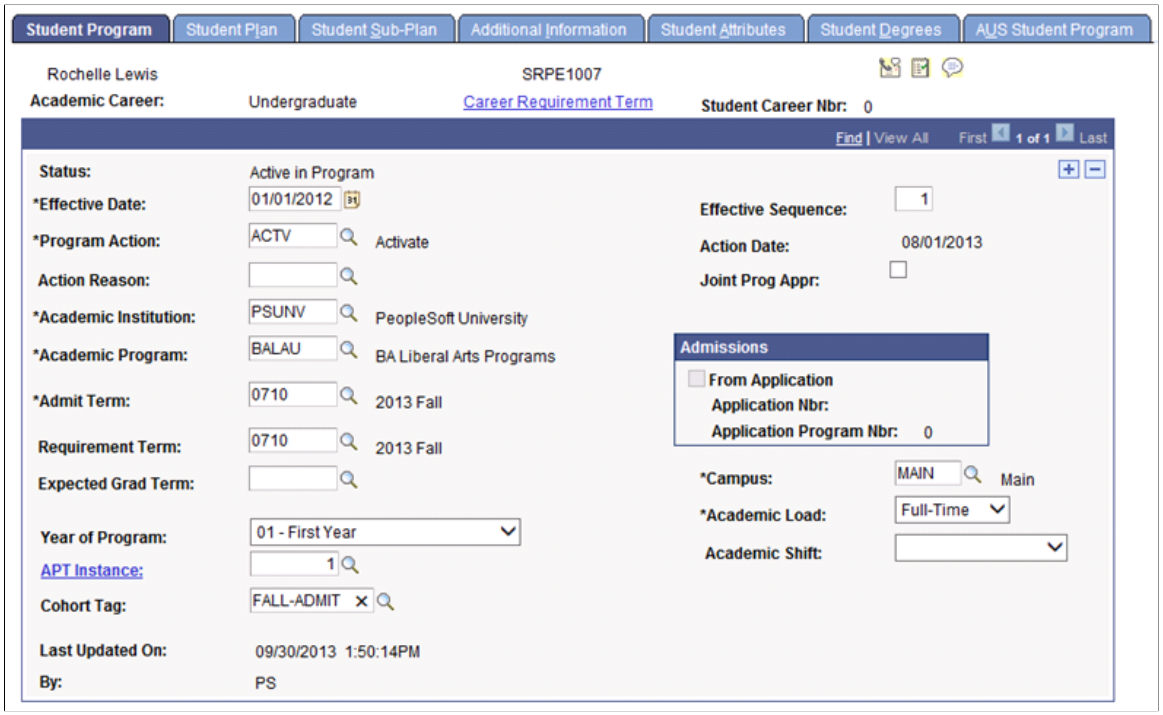
Creating an APT Instance from Student Records Program/Plan Component

Access the Student Program page (Records and Enrollment, Career and Program Information, Student Program/Plan, Student Program).

Image: Student Program page example for Program Enrollment

This example illustrates the fields and controls on the Student Program page for Program Enrollment. You can find definitions for the fields and controls later on this page.



Year of Program

This value is gathered in the application process and indicates the student's start point in a program of study: for example, a student could apply as a second year student. The value is copied from the Admissions program stack by the matriculation process.

APT Instance

This field is populated with number of the APT Instance. This could be generated during the Admissions activation/ matriculation process, the APT Request process or from this component (see "Adding a New Program" below).

Click the APT Instance link to access the Academic Progress Tracker component. From that component, click the Student Career Nbr link to return to the Student Program page.

See Creating and Managing APT Instances Using the Academic Progress Tracker Component

Cohort Tag

This value is obtained in the application process and indicates the point within a term (typically a session) that the applicant is expected to enroll.

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An APT instance can be created from the Program/Plan component when a user adds a new program stack (or career number) or makes changes to an existing program stack: the APT API is called from this component to create an APT instance.

Adding a New Program

An APT instance can be created from the Program/Plan component when a user adds a new program stack (or career number) or makes changes to an existing program stack: the APT API is called from this component to create an APT instance. When a new career number is added and the component is saved, the APT API is called.

The API:

- Checks to see if mapping exists for the student's program in the Academic Program Table Program Enrollment Mapping table. (SSR_PE_PRG_MAP).
- If mapping exists, finds a row which maps to the combination of Plan(s) Sub-Plan(s) and Approved Academic Load. If mapping does not exist, uses the default (a default is required).
- Creates an APT Instance for the mapped AIR program (process creates a row in the APT header table).
- Updates the Instance number (ACAD_PROG.SSR_APT_INSTANCE).
- The component returns a message to the user, confirming that an instance has been created.

See Mapping Campus Solutions Academic Programs, Plans and SubPlans to AIR Based Programs of Study

Changes to Existing Program Data

When a user inserts a new effective dated row and saves, an edit is performed to see if the new data – academic program, approved academic load, academic plan(s) or sub-plan(s) – has changed the program mapping from the previous row. If such a change has occurred:

- A message is returned to the user to ask if a new instance should be created.
- If the user answers yes, the API is called and the steps described in the previous Adding a New Program section are performed.

It is also possible that a student's program data could change in such as way that a new effective dated row could map to a prior APT instance. For example, a student might change from full-time (Instance 1) to part-time (Instance 2) and then subsequently change back to full-time. When this occurs, and the new data maps to a program on a prior instance:

- The user is prompted to create a new instance (because the mapping has changed).
- If a match is found on a prior instance, the user is prompted to point the new effective dated row to that instance.
- If the user answers yes, the instance number from the previous instance is used; otherwise a new instance is created.

Related Links

Maintaining Student Program Stacks

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APT API Detail

Creating and Managing APT Instances Using the APT Request Process

As previously mentioned, an APT instance can be generated after an applicant has been activated, or directly from the Student Program/Plan component when you add a new program stack or when a change is made to an existing program stack. The APT Request process allows you to create new instances for groups of students and to maintain those instances by adding and activating new program nodes as they progress through a program of study.

The process of generating an APT instance can, depending on the processing action, involve two main steps:

1. The creation of a header record, which creates the keys of the instance and the academic item ID for the assigned program.
2. The population of the instance with the academic items or program requirements for a selected program item.

For detailed information about each of the operations performed by the APT API, refer to the APT API Detail documentation.

See APT API Detail

This section discusses how to run the APT Request process.

Page Used to Run the APT Request Process

Page Name	*Definition Name*	*Navigation*	*Usage*
APT Request	SSR_APT_REQ_RUNCNT	Records and Enrollment, Program Enrollment, APT Request	Run the APT Request process.

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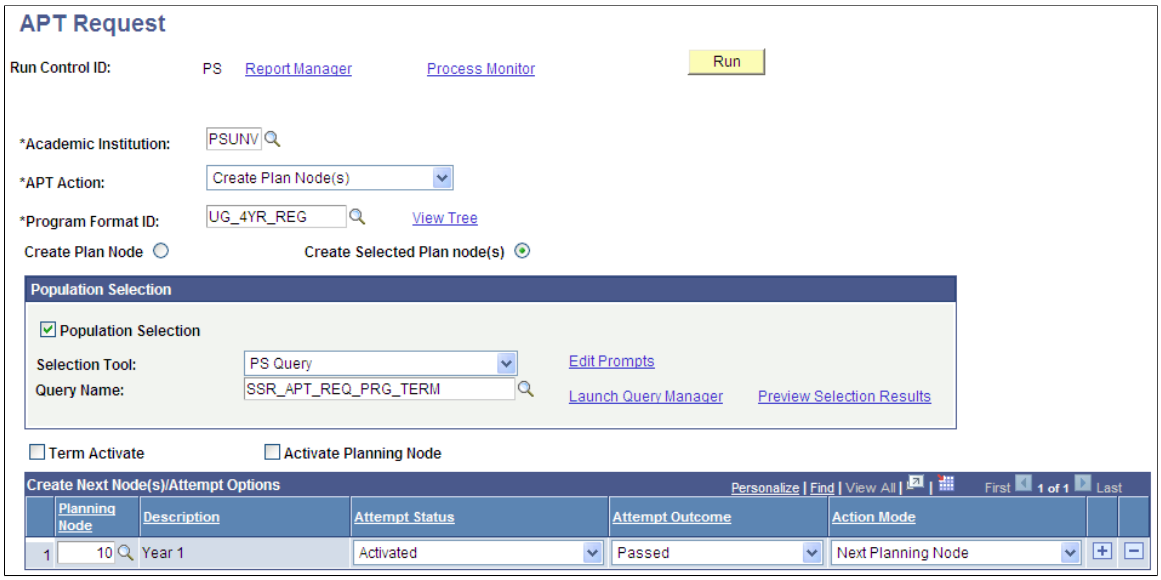
Running the APT Request Process

Access the APT Request page (Records and Enrollment, Program Enrollment, APT Request).

Image: APT Request page

This example illustrates the fields and controls on the APT Request page. You can find definitions for the fields and controls later on this page.



APT Action

These actions determine how the APT Request process (SSR _APT_REQ) builds a new APT instance or interacts with an existing instance. Select an action:

- *Create Instance:* Builds a new APT Instance by creating a header record (SSR_APT_HDR) containing the keys and other high level data for the instance. This action emulates the processing that occurs as a result of an Admissions program activation or from the Student Program/Plan component. This action updates the student program/plan stack with the instance number.

- *Create Ins and Plan Node Attempt:* Creates a new instance and builds on the first planning node attempt, along with any child program format tree nodes as well as any other items for which the Automatically Move to APT check box is selected on the Enrollment Category page. This action updates the student program/plan stack with the instance number.

  See Setting Up Enrollment Categories for Program Requirements

- *Create Plan Node(s):* Builds out the next planning node or specified planning node of the program, depending on whether the Create Plan Node or Create Selected Plan Node(s) option is selected (see documentation later in this

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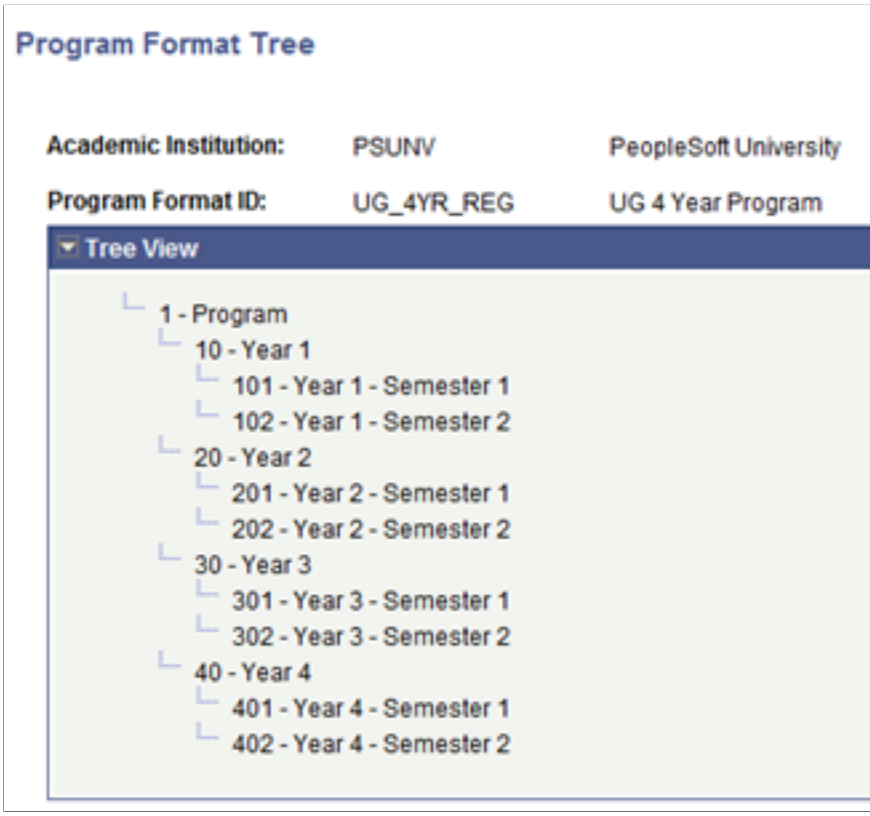
section). The process creates the planning node item and attempt along with any items (for that node) for which the Automatically Move to APT check box is selected on the Enrollment Category page. The next node is the next node in the student's program after the current or maximum node in APT. For example, if the program planning nodes are defined as years, node 100 (year 1), 200 (year 2), 300 (year 3) and the maximum node in APT is currently 200, the next node is year 3 (300). When you select this action, the Create Next Node/Attempt Options grid becomes available.

- *Activate Planning Node:* Sets the Attempt Status field (on the APT Items page) to *Activated* for the items representing the planning node and child program format tree nodes. For example, with a program format like this:

  Image: Program Format example for APT

  This example illustrates the fields and controls on the Program Format example for APT. You can find definitions for the fields and controls later on this page.



  where *Year* is the Planning Node, this action would activate the Year and both of its child Semester items. Activation occurs on the current planning node in APT: that is, the maximum sequenced planning node with an attempt status equal to null.

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Program Format ID

This field prompts against the Program Format Table for the selected institution. Use the View Tree link to view the Program Format definition. The value that is selected here serves as a high level control for the run control. Only students (identified by the population selection or entered manually) in programs with a matching program format ID are considered for processing.

Create Plan Node

When this option is selected, the APT request process sequentially identifies which planning node should be created for a student. For example, if the student's program format has four planning nodes, 10, 20, 30 and 40 and the action is *Create Ins and Plan Node Attempt,* the process creates the lowest planning node ID, 10.

This option is selected by default.

Create Selected Plan Node(s)

If this option is selected, the user must identify which plan node (within a Program Format) should be created for the run. This allows planning nodes to be created in a user defined order when necessary.

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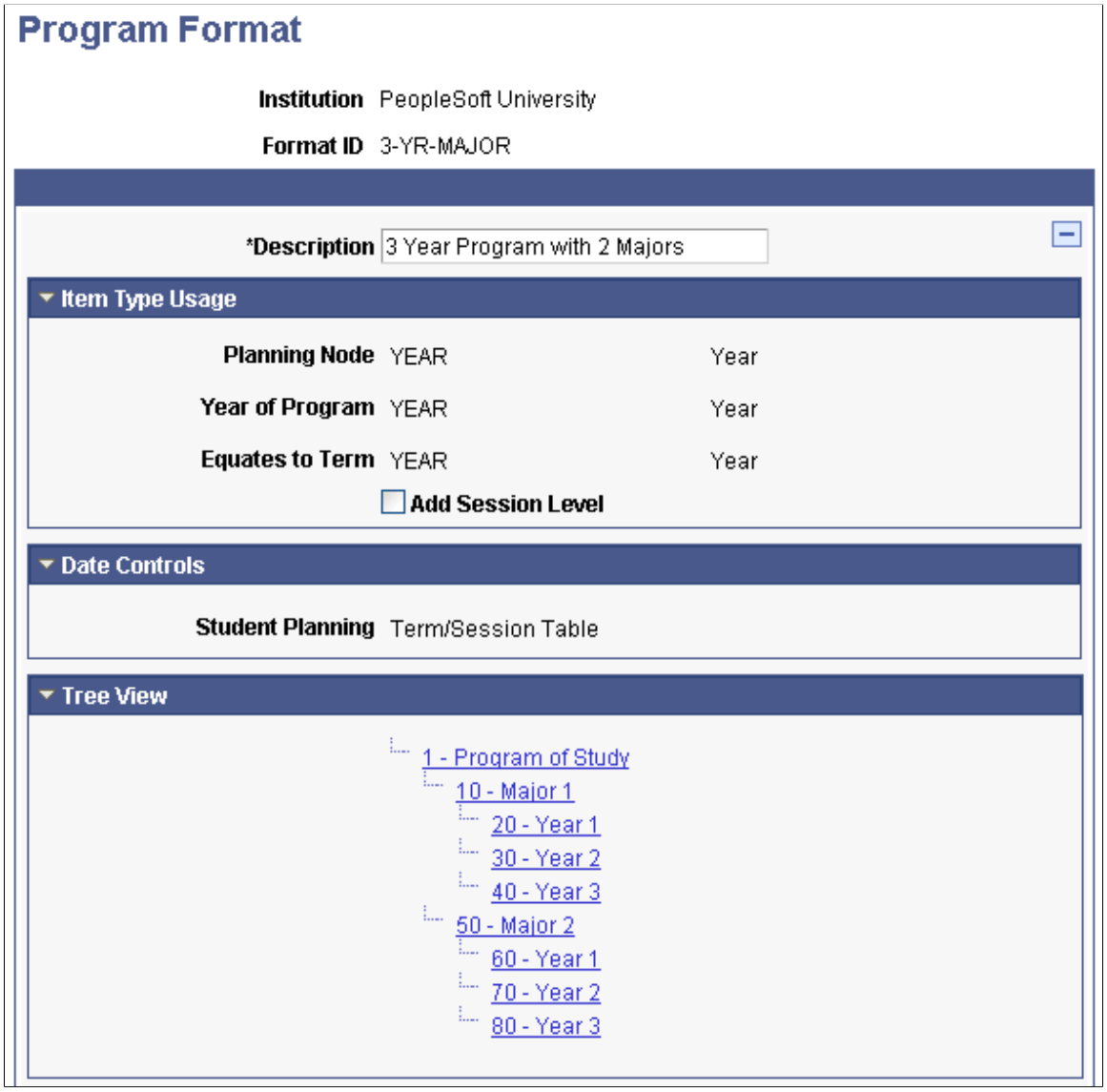
For example, you could define a Program Format where it is necessary to create and activate multiple planning nodes at the same time. Refer to the following example.

Image: Program Format example Create Selected Plan Node(s)

This example shows a dual major program format, where planning nodes (years) are defined under each major:



The Create Selected Plan Node(s) option can be used to identify, create and activate each year for each major. To activate the student in Year 1 for both Majors, Node IDs 20 and 60 would be specified.

Population Selection

The Population Selection group box is a standard group box that appears on run control pages when the Population Selection process is available or required for the transaction. Selection tools are available based on the selection tools that your institution selected in the setup of the Population Selection process for the application process and on your user security. Fields in the group box appear based on the selection tool that you select. The fields behave the same way from within the group box on all run

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control pages and application processes. If your institution uses a specific delivered selection tool to identify IDs for a specific transaction, you must use it.

Selection Tool Select *External File* or *PS Query.*

Query Name The following queries are delivered as samples:

- SSR_APT_REQ_SAMPLE (prompts on Institution only).
- SSR_APT_REQ_PRG_TERM (prompts on Institution, Academic Career, AIR Program item ID and APT Cohort Term)

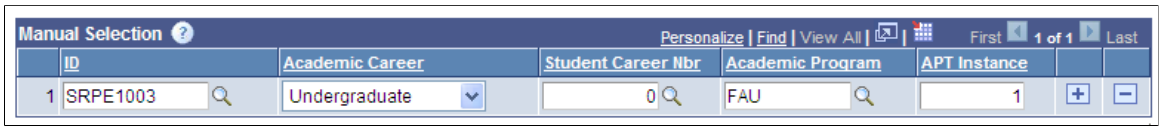
When you create queries for use with APT Request, you must use the bind record SSR_APT_PROG_VW.

See "Using the Population Selection Process *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

Manual Selection

Image: APT Request page Manual Selection grid

The Manual Selection grid is available if you do not select the Population Selection check box. Use the grid to enter a list of students for processing:



Academic Career Enter a valid academic career for the institution/student combination.

Student Career Nbr Prompts against a view of the student's program stack for the selected ID/Academic Career.

Academic Program Enter a valid academic program value for the student.

APT Instance If the APT Action is *Create Instance* or *Create Instance and Plan Node Attempt,* this field is not displayed and defaults to *0.* For other actions (where the process acts on an existing instance) the APT instance number attached to the selected Student Career Number will default.

Activating Terms and Planning Nodes

Term Activate When this check box is selected, the process term activates (that is, creates student term/STDNT_CAR_TERM rows) for all terms within the planning node. This check box is available for all APT actions except *Create Instance.*

Activate Planning Node When this check box is selected, the process activates the planning node (and any child program format tree nodes) as they are created. This check box is available when the APT

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Action is *Create Ins and Plan Node Attempt* or *Create Plan Node(s).*

Create Next Node(s)/Attempt Options

When the APT Action is *Create Plan Node(s),* the Create Next Node(s)/Attempt Options grid becomes available (as in the page example above).

Planning Node

Available only when the Create Selected Plan Node option has been selected. Select a planning node from the prompt values for the Program Format. The value that you select here is used in one of two ways, depending on the value selected in the Action Mode field (see below). The value represents either the node ID of the planning node to be created in this run or it represents the student(s) current planning node and the process should create the next planning node in the sequence.

Attempt Status

The value that you select here is the Attempt Status of the current planning node for the students being processed. The values are: *Activated, Completed,* and *Finalized.* Only students with the attempt status that you select are processed.

Attempt Outcome

The value that you select here is the Attempt Outcome of the current Planning node for the students being processed. The values are: *Passed* and *Not Passed.* Only students with the attempt outcome that you select are processed.

Action Mode

Determines whether the process should create a specified planning node or the next planning node or a new attempt against the current planning node. The values are:

- *Create Plan Node:* This value is available only when the Run Control mode is Create Selected Plan Node. You must enter a value in the Planning Node field. The process creates this planning node if it does not already exist in the student's APT instance.
- *Next Planning Node:* Builds out the next planning node, including any child program format tree nodes and items for which the Automatically Move to APT check box is selected on the Enrollment Category page.
    - If the Run Control mode is Create Plan Node, this process uses the student's current (that is, maximum) planning node to determine the next planning node in sequence for the student.
    - If the Run Control mode is Create Selected Plan Node, you must enter a value in the Planning Node field. The process uses this value to determine the next planning node.

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- *New Attempt:* Creates a new attempt against the current planning node, if that planning node has been flagged as Eligible for Retake in the student's APT instance. When this is true, the process creates a new attempt against the planning node and also creates new attempts against any program format tree nodes flagged as Eligible for Retake.
    - If the Run Control mode is Create Plan Node, the process creates a new attempt against the student's current (that is, maximum) planning node.
    - If the Run Control mode is Create Selected Plan Node, you must enter a value in the Planning Node field. The process creates a new attempt against this planning node if it exists in the student's APT instance.

Creating and Managing APT Instances Using the Academic Progress Tracker Component

This section discusses how to:

- Add an APT instance.
- Manage APT instance statuses.
- Use the AIR Tree.
- Use the APT Tree.
- Manage APT Items.
- Use the APT timeline.

Pages Used to Create and Manage APT Instances

Page Name	***Definition Name***	***Navigation***	***Usage***
Header	SSR_APT_HDR	Records and Enrollment, Program Enrollment, Academic Progress Tracker, Header	Add an APT instance.
AIR Tree	SSR_APT_AIR_TREE	Records and Enrollment, Program Enrollment, Academic Progress Tracker, AIR Tree	View program requirements and add academic items to APT.
APT Tree	SSR_APT_TREE	Records and Enrollment, Program Enrollment, Academic Progress Tracker, APT Tree	View the academic items within an APT instance.

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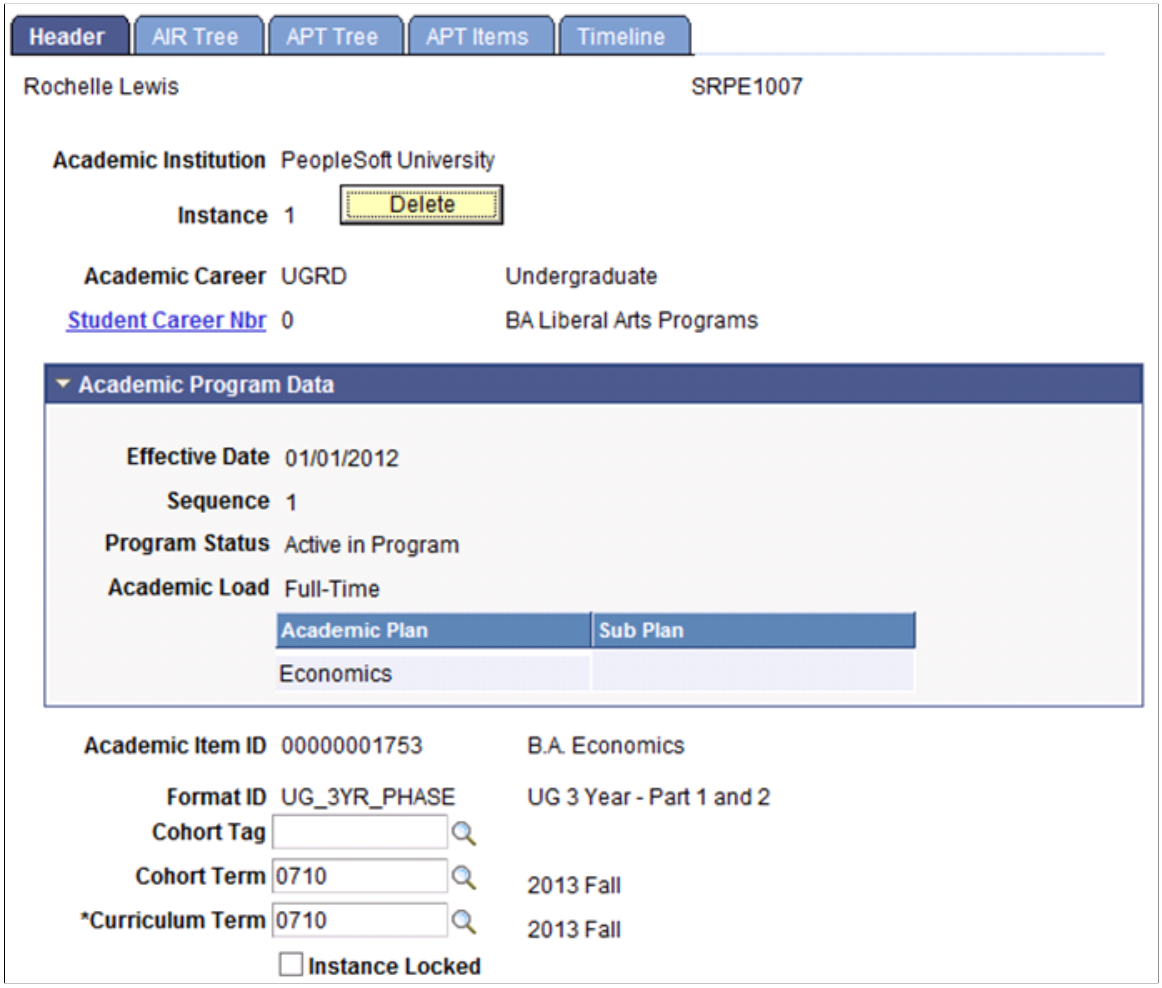
Page Name	*Definition Name*	*Navigation*	*Usage*
APT Items	SSR_APT_ITM	Records and Enrollment, Program Enrollment, Academic Progress Tracker, APT Items	Manage APT items.
Timeline	SSR_APT_TIMETABLE	Records and Enrollment, Program Enrollment, Academic Progress Tracker, Timeline.	Use the APT timeline.

Adding an APT Instance

Access the Header page (Records and Enrollment, Program Enrollment, Academic Progress Tracker, Header).

Image: Header page

This example illustrates the fields and controls on the Header page. You can find definitions for the fields and controls later on this page.



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An APT Instance is created by EMPLID, INSTITUTION and SSR_APT_INSTANCE. In addition to providing a link to the student's program stack, the Instance Header record also captures key high level data about the student's program of study.

Delete	You can delete an instance if no Instance Number exists on the Student Program page and no result rows exist for which the Include in Calculation check box is selected on APT Items page and the Result Status is Undetermined. See Linking an APT Instance to the Student Program See Managing APT Items
Academic Career	Select an academic career. A student must have an active STDNT_CAREER row for the selected career.
Student Career Nbr	Select a student career number. The field prompts against all active student program stacks for the selected academic career. Click the related link to access the Program Plan component for the selected career number.
Effective Date and **Sequence**	Displays effective date and sequence of the current row for the student's program/plan stack.
Program Status	Displays the status of the program associated with the selected career number.
Academic Load	Displays the approved academic load for the program.
Academic Plan/Sub Plan	Display only.
Academic Item ID	Select an academic item ID. The prompt lists all valid academic items with an academic item type of Program (SSR_AIR_HDR. SSR_ITEM_TYPE = 'PRG'). This is a delivered academic item type value.
Format ID	Displays the program format ID attached to PRG Academic Item. This value is used to assign an enrollment cohort to a student (see Cohort Term).
Cohort Tag	This value is obtained in the application process and indicates the point within a term (typically a session) that the applicant is expected to enroll. If present, this value is used to assign an enrollment cohort to a student (see Cohort Term).
Cohort Term	The admit term of the student (ACAD_PROG.ADMIT_TERM) appears by default but can be changed. This value is used to assign an enrollment cohort to a student. The system uses the institution, career, program format ID, approved academic load, cohort term and cohort tag (if it exists - it is not required) to point to an enrollment cohort definition for the student. If a student does not have a Cohort Tag, the system looks for matches in the Enrollment Cohort Table where the Cohort Tag value is null.

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	See Setting Up Enrollment Cohorts
Curriculum Term	The value of the requirement term for the selected career number appears by default. You can change the value.
Instance Locked	Select this check box to lock the entire APT instance, preventing any updates. Note: This feature is planned for the future.
Instance Attributes	The scroll area allows you to assign attributes and values to an APT instance. Associate instance attributes for use with APT Instances on the Common Attributes – Record Context page. See "Associating a Common Attribute to a Record *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"
Generate	Click this button to launch the process that fetches all academic items that are attached to the PRG academic item ID. The following documentation explains the generate process.

Generating Academic Items

As mentioned previously, the process of adding an APT instance involves two steps. The first is the creation of a header record using the fields described above. The second step is the generation of the academic items or program requirements for a selected program item. This could be a single item (for the program itself) if the program item is a shell for a customized student specific program, or it could be an extensive list of requirements that are nested under the program item in a series of layers or levels. The item generation process does the following:

1. Evaluates the TERM_TBL to find the start date of the student's Requirement Term (SSR_APT_HDR.REQ_TERM).
2. Using that date, it retrieves the maximum active effective dated row for the PRG item (from SSR_AIR_HDR) where the effective date is less than or equal to the Curriculum Term start date.
3. Retrieves all Academic Item rows for the PRG item and its children, all child items of the PRG's children and so on.

The list of items returned (on the AIR Tree page) represents a view of all the items that are tied to the PRG academic item in the header. These are the items that can be added from AIR to the student's APT instance.

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Managing APT Instance Statuses

An APT Instance is essentially an extension of the student's program/plan stack, and the status of the instance (active or inactive) is conferred by the most current effective dated row on the program stack.

Image: Header page example of inactive instance

When an APT instance is inactivated, the instance is marked as inactive and an *end effective date* is displayed as in the following example:

An APT instance can be rendered inactive when one of the following events occurs on the program/plan stack:

- An effective dated row is added which inactivates the program stack (for example, the program row is discontinued or suspended).
- A change occurs in the program stack data (such as a program or plan change) which initiates the creation of a new APT instance as of a certain date.

  For example, Student A has instance 1, which is active as of 07/01/2012. Student A changes Plan with an effective date of 08/01/2013. This plan change maps to a new AIR program which leads to the creation of a new instance for the student, instance 2. In this case, the APT Header data would look like this:

Instance	***Effective Date***	***End Effective Date***
1	07/01/2012	07/31/2013
2	08/01/2013	

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Using the AIR Tree

The AIR Tree provides a view of a student's program requirements as they are defined in the Academic Item Registry. When you click Generate on the Header page, all of the academic items attached to the student's academic program item (that is, the value in the Academic Item ID field on the Header page) are rendered in a view that represents both program structure and content.

See Setting Up Academic Item Registry Entries, Item Details, and Item Security

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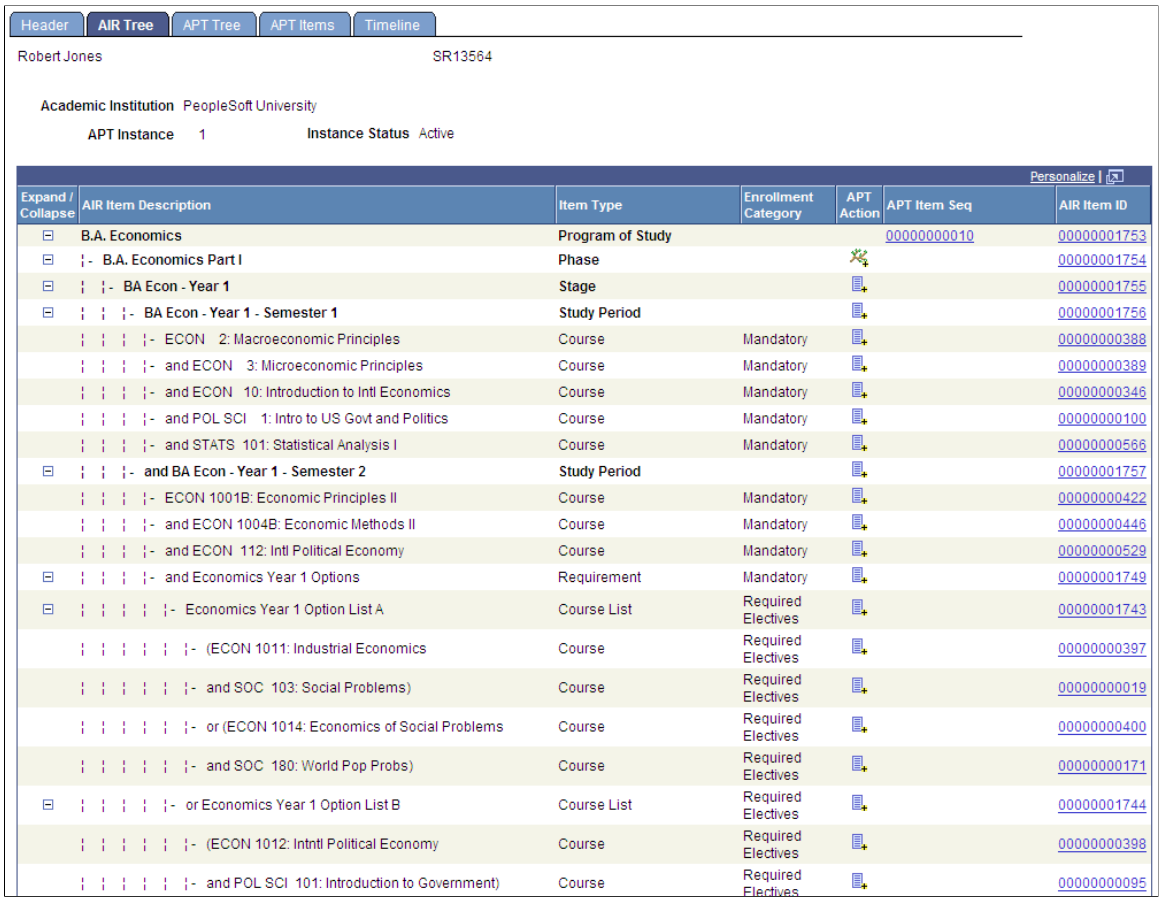
Access the AIR Tree page (Records and Enrollment, Program Enrollment, Academic Progress Tracker, AIR Tree).

Image: AIR Tree page (1 of 2)

This example illustrates the fields and controls on the AIR Tree page (1 of 2). You can find definitions for the fields and controls later on this page.



Header | AIR Tree | APT Tree | APT Items | Timeline

Robert Jones SR13564

Academic Institution PeopleSoft University

APT Instance 1 Instance Status Active

Personalize

Expand / Collapse	AIR Item Description	Item Type	Enrollment Category	APT Action	APT Item Seq	AIR Item ID
	B.A. Economics	Program of Study			00000000010	00000001753
	B.A. Economics Part I	Phase				00000001754
	BA Econ - Year 1	Stage				00000001755
	BA Econ - Year 1 - Semester 1	Study Period				00000001756
	ECON 2: Macroeconomic Principles	Course	Mandatory			00000000388
	and ECON 3: Microeconomic Principles	Course	Mandatory			00000000389
	and ECON 10: Introduction to Intl Economics	Course	Mandatory			00000000346
	and POL SCI 1: Intro to US Govt and Politics	Course	Mandatory			00000000100
	and STATS 101: Statistical Analysis I	Course	Mandatory			00000000566
	and BA Econ - Year 1 - Semester 2	Study Period				00000001757
	ECON 1001B: Economic Principles II	Course	Mandatory			00000000422
	and ECON 1004B: Economic Methods II	Course	Mandatory			00000000446
	and ECON 112: Intl Political Economy	Course	Mandatory			00000000529
	and Economics Year 1 Options	Requirement	Mandatory			00000001749
	Economics Year 1 Option List A	Course List	Required Electives			00000001743
	(ECON 1011: Industrial Economics	Course	Required Electives			00000000397
	and SOC 103: Social Problems)	Course	Required Electives			00000000019
	or (ECON 1014: Economics of Social Problems	Course	Required Electives			00000000400
	and SOC 180: World Pop Probs)	Course	Required Electives			00000000171
	or Economics Year 1 Option List B	Course List	Required Electives			00000001744
	(ECON 1012: Intntl Political Economy	Course	Required Electives			00000000398
	and POL SCI 101: Introduction to Government)	Course	Required Electives			00000000095

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Image: AIR Tree page (2 of 2)

This example illustrates the fields and controls on the AIR Tree page (2 of 2). You can find definitions for the fields and controls later on this page.

¦ ¦ ¦ ¦ ¦ ¦- or (ECON 1013: Public Sector Economics	Course	Required Electives		00000000399
¦ ¦ ¦ ¦ ¦ ¦- and POL SCI 105: Intro to World Politics)	Course	Required Electives		00000000097
¦- **and B.A. Economics Part II**	**Phase**			00000001758
¦ ¦- Economics Part 2 Required Courses	Course List	Required Electives		00000001745
¦ ¦ ¦- ECON 2011: Company, Finance and Strategy	Course	Required Electives		00000000407
¦ ¦ ¦- and ECON 2012: Corporate Finance	Course	Required Electives		00000000408
¦ ¦ ¦- and ECON 3005: U.S. and the Intntl Economy	Course	Required Electives		00000000427
¦ ¦ ¦- and ECON 3004: The International Economy	Course	Required Electives		00000000418
¦ ¦- **and BA Econ - Year 2**	**Stage**			00000001759
¦ ¦ ¦- **BA Econ - Year 2 - Semester 1**	**Study Period**			00000001760
¦ ¦ ¦ ¦- ECON 2001: Microeconomic Analysis I	Course	Mandatory		00000000401
¦ ¦ ¦ ¦- and ECON 2003: Mainstream Macroeconomics I	Course	Mandatory		00000000403
¦ ¦ ¦ ¦- and ECON 2005A: Economic Investigation I	Course	Mandatory		00000000405
¦ ¦ ¦- **and BA Econ - Year 2 - Semester 2**	**Study Period**			00000001761
¦ ¦ ¦ ¦- ECON 2002: Microeconomic Analysis II	Course	Mandatory		00000000402
¦ ¦ ¦ ¦- and ECON 2004: Mainstream Macroeconomics II	Course	Mandatory		00000000404
¦ ¦ ¦ ¦- and Economics Year 2 Options	Course List	Mandatory		00000001746
¦ ¦ ¦ ¦ ¦ ¦- ECON 208: Silicon Valley Econ Problems	Course	Electives		00000000536
¦ ¦ ¦ ¦ ¦ ¦- or ECON 220: Labor Economics	Course	Electives		00000000540
¦ ¦ ¦ ¦ ¦ ¦- or ECON 224: Health Economics	Course	Electives		00000000541
¦ ¦ ¦ ¦ ¦ ¦- or ECON 2017: Valuing the Environment	Course	Electives		00000000411
¦ ¦ ¦ ¦ ¦ ¦- or ECON 2018: Econ and Environment Policy	Course	Electives		00000000412
¦ ¦ ¦ ¦ ¦ ¦- or ECON 2021: Independent Study	Course	Electives		00000000413

Enrollment Category

A value appears in this column when the academic item has an enrolment category. An Enrollment Category is a user defined code that is used to control how an academic item is moved to an APT instance.

See Setting Up Enrollment Categories for Program Requirements

APT Action

In the APT Action column, the Create Planning Node icon or Add icon can appear.

The Create Planning Node icon appears when the item has not yet been added to APT. The icon appears only for the academic items that are identified as Planning Nodes in the Program Format definition for the program (SSR_PROG_FORM.SSR _ITEM_TYPE_PLN). Planning Nodes in the Program Format indicate the level at which a student can start to plan and enrol (for example, year by year).

See Setting Up Program Formats

The Add icon appears for all academic items other than grading items.

APT Item Seq

This column appears as soon as one item is added to APT. The sequence number is generated as items are added to APT and therefore sequencing depends on the order in which items are

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added. Click the link to access the APT Items page and view the expanded item detail section for the selected item.

See Managing APT Items

AIR Item ID

This column lists the Academic Item IDs that are associated with the PRG item selected in the header – that is, child items of the PRG item and of all of its related items. Click the link to access the AIR component for the selected academic item.

Using the Create Planning Node Function

The Create Planning Node function simulates the APT Request action of *Create Plan Node(s)* by inserting all of the academic items for the first or subsequent sections of a student's program of study by adding academic item(s) identified as Planning Nodes (in the Program Format definition).

See Setting Up Program Formats

The placement of the planning node (and selected child items) will open that particular section of the program–for example a stage, year or semester–for planning and enrollment.

The Create Planning Node function adds:

- The selected item (that is, the item identified as a Planning Node and where the icon appears).
- All ancestors in the lineage that are not already in APT.
- AND
- All non-COURSE immediate child items (for example a 'stage' or 'study period').

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- Any descendent items that have an enrollment category for which SSR_ENRL_CAT.SSR_AUTOMOVE_APT = 'Y'.

Image: AIR Tree page example 1

In the following example, each phase is a Planning Node. The Enrollment Category of Mandatory is defined as one for which items should be automatically moved to a student's APT:

Personalize

Expand / Collapse	AIR Item Description	Item Type	Enrollment Category	APT Action	APT Item Seq	AIR Item ID
	B.A. Economics	Program of Study			00000000010	00000001753
	B.A. Economics Part I	Phase				00000001754
	BA Econ - Year 1	Stage				00000001755
	BA Econ - Year 1 - Semester 1	Study Period				00000001756
	ECON 2: Macroeconomic Principles	Course	Mandatory			00000000388
	and ECON 3: Microeconomic Principles	Course	Mandatory			00000000389
	and ECON 10: Introduction to Intl Economics	Course	Mandatory			00000000346
	and POL SCI 1: Intro to US Govt and Politics	Course	Mandatory			00000000100
	and STATS 101: Statistical Analysis I	Course	Mandatory			00000000566
	and BA Econ - Year 1 - Semester 2	Study Period				00000001757
	ECON 1001B: Economic Principles II	Course	Mandatory			00000000422
	and ECON 1004B: Economic Methods II	Course	Mandatory			00000000446
	and ECON 112: Intl Political Economy	Course	Mandatory			00000000529
	and Economics Year 1 Options	Requirement	Mandatory			00000001749
	Economics Year 1 Option List A	Course List	Required Electives			00000001743
	(ECON 1011: Industrial Economics	Course	Required Electives			00000000397
	and SOC 103: Social Problems)	Course	Required Electives			00000000019
	or (ECON 1014: Economics of Social Problems	Course	Required Electives			00000000400
	and SOC 180: World Pop Probs)	Course	Required Electives			00000000171
	or Economics Year 1 Option List B	Course List	Required Electives			00000001744
	(ECON 1012: Intntl Political Economy	Course	Required Electives			00000000398
	and POL SCI 101: Introduction to Government)	Course	Required Electives			00000000095
	or (ECON 1013: Public Sector Economics	Course	Required Electives			00000000399
	and POL SCI 105: Intro to World Politics)	Course	Required Electives			00000000097

When Phase 1 is created, the following items will be added to APT:

AIR Item Description	*Item Type*	*AIR Item ID*
BA Economics	Program of Study	00000001753
Part 1 – BA Economics Program	(Program Phase)	00000001754
Year 1 B.A Economics	Stage	00000001755
Year 1 – Semester 1	Study Period Plus all Mandatory items, in this case all courses	00000001756

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AIR Item Description	*Item Type*	*AIR Item ID*
Year 1– Semester 2	Study Period Plus all Mandatory items: all three mandatory courses plus the mandatory Economics Year 1 Options item (but not its children, which do not have the Automatically move to APT check box selected on the Enrollment Category page, because the student needs to choose.)	00000001757

See Setting Up Enrollment Categories for Program Requirements

Using the Add Function

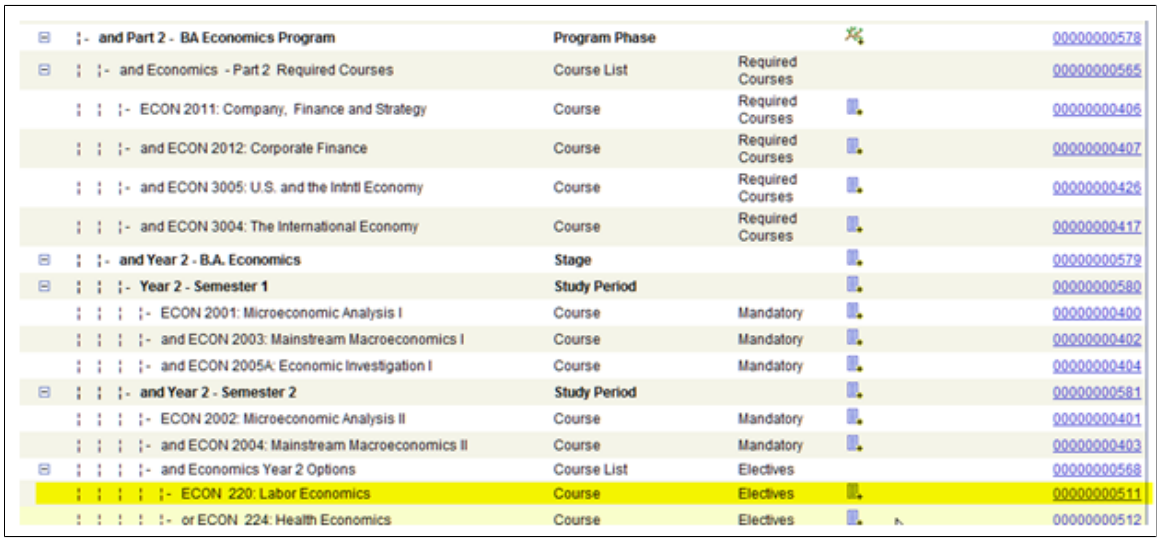
You can also add academic items to an APT instance on an individual basis using the Add function. For example the Add button can be used to add courses when you must select one or more courses from a list. When items are added to a student's APT in this way however, the relationship of that item to other items in the AIR tree must be recorded in order to maintain the structure of the program at an individual student level. Because it is possible to add an item without also adding its parent, the *ancestors* of an item are also added if they have not themselves been added to the APT instance.

In most cases the Add function adds the selected item to APT as well as all ancestors in the lineage, up through the PRG root, that do not already exist in APT. The exception is course items that are not associated with an item that equates to Term.

See Assigning Term Values to Courses

Image: AIR Tree example 2

This example illustrates the AIR Tree as explained below.



and Part 2 - BA Economics Program	Program Phase		00000000578
and Economics - Part 2 Required Courses	Course List	Required Courses	00000000565
ECON 2011: Company, Finance and Strategy	Course	Required Courses	00000000406
and ECON 2012: Corporate Finance	Course	Required Courses	00000000407
and ECON 3005: U.S. and the Intntl Economy	Course	Required Courses	00000000426
and ECON 3004: The International Economy	Course	Required Courses	00000000417
and Year 2 - B.A. Economics	Stage		00000000579
Year 2 - Semester 1	Study Period		00000000580
ECON 2001: Microeconomic Analysis I	Course	Mandatory	00000000400
and ECON 2003: Mainstream Macroeconomics I	Course	Mandatory	00000000402
and ECON 2005A: Economic Investigation I	Course	Mandatory	00000000404
and Year 2 - Semester 2	Study Period		00000000581
ECON 2002: Microeconomic Analysis II	Course	Mandatory	00000000401
and ECON 2004: Mainstream Macroeconomics II	Course	Mandatory	00000000403
and Economics Year 2 Options	Course List	Electives	00000000568
ECON 220: Labor Economics	Course	Electives	00000000511
or ECON 224: Health Economics	Course	Electives	00000000512

In the example above, if you added course ECON 220 (highlighted in the example page) and no other items had been added to the APT for Part 2 B.A. Economics, the following items would also be added:

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- ECON 220 (00000000511– selected item)
- Economics Year 2 Options (Course List: 00000000568 – parent of selected item)
- Year 2 - Semester 2 (Study Period: 00000000581 – parent of Course List)
- Year 2- B.A. Economics (Stage: 00000000579 – parent of Study Period)
- Part 2 - BA Economics Program (Phase: 00000000578– parent of Stage)

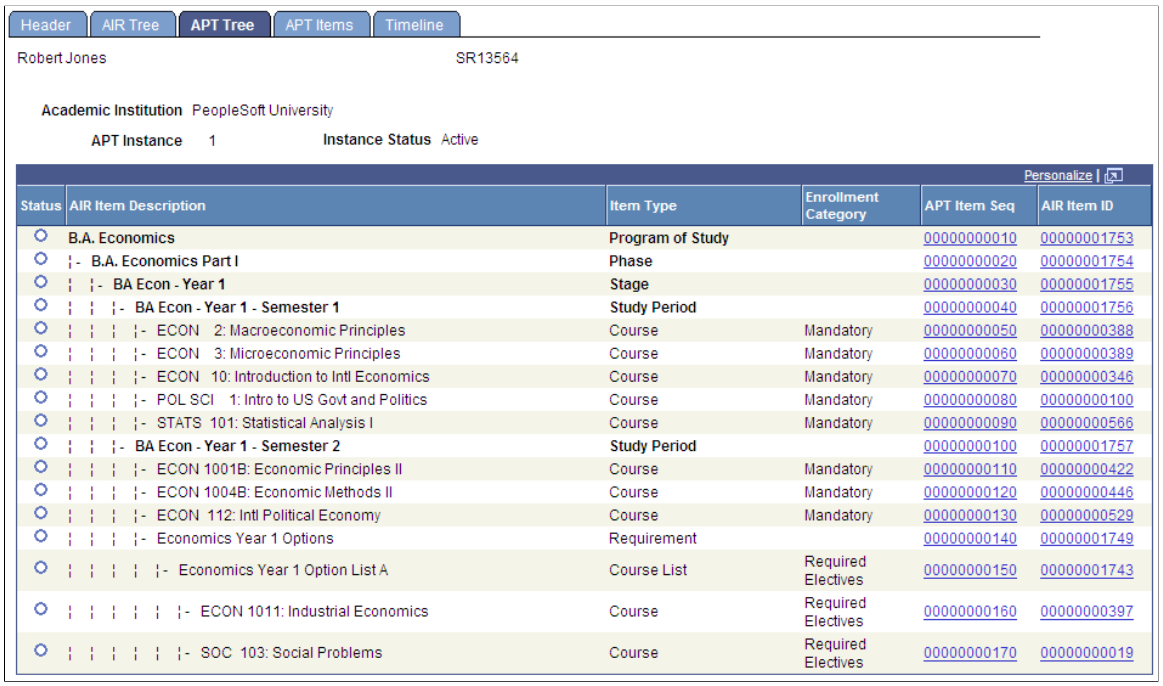
Using the APT Tree

The APT Tree provides a view of all of the academic items within a particular APT instance, the status of those items (completed or not completed) and the relationships between those items. Although APT data is sourced from data that is defined in a tree-like structure (AIR) it is possible that these relationships can be changed after the items are placed in an APT instance. A course could be moved from one stage to another, for example, such that the parent item is changed from STAGE 1 to STAGE 2. The individual student program tree structure presented in this way is used to calculate results at various levels in the program. Note. This feature is planned for the future.

Access the APT Tree page (Records and Enrollment, Program Enrollment, Academic Progress Tracker, APT Tree).

Image: APT Tree page

This example illustrates the fields and controls on the APT Tree page. You can find definitions for the fields and controls later on this page.



Status	AIR Item Description	Item Type	Enrollment Category	APT Item Seq	AIR Item ID
	B.A. Economics	Program of Study		00000000010	00000001753
	¦- B.A. Economics Part I	Phase		00000000020	00000001754
	¦ ¦- BA Econ - Year 1	Stage		00000000030	00000001755
	¦ ¦ ¦- BA Econ - Year 1 - Semester 1	Study Period		00000000040	00000001756
	¦ ¦ ¦ ¦- ECON 2: Macroeconomic Principles	Course	Mandatory	00000000050	00000000388
	¦ ¦ ¦ ¦- ECON 3: Microeconomic Principles	Course	Mandatory	00000000060	00000000389
	¦ ¦ ¦ ¦- ECON 10: Introduction to Intl Economics	Course	Mandatory	00000000070	00000000346
	¦ ¦ ¦ ¦- POL SCI 1: Intro to US Govt and Politics	Course	Mandatory	00000000080	00000000100
	¦ ¦ ¦ ¦- STATS 101: Statistical Analysis I	Course	Mandatory	00000000090	00000000566
	¦ ¦ ¦- BA Econ - Year 1 - Semester 2	Study Period		00000000100	00000001757
	¦ ¦ ¦ ¦- ECON 1001B: Economic Principles II	Course	Mandatory	00000000110	00000000422
	¦ ¦ ¦ ¦- ECON 1004B: Economic Methods II	Course	Mandatory	00000000120	00000000446
	¦ ¦ ¦ ¦- ECON 112: Intl Political Economy	Course	Mandatory	00000000130	00000000529
	¦ ¦ ¦ ¦- Economics Year 1 Options	Requirement		00000000140	00000001749
	¦ ¦ ¦ ¦ ¦- Economics Year 1 Option List A	Course List	Required Electives	00000000150	00000001743
	¦ ¦ ¦ ¦ ¦ ¦- ECON 1011: Industrial Economics	Course	Required Electives	00000000160	00000000397
	¦ ¦ ¦ ¦ ¦ ¦- SOC 103: Social Problems	Course	Required Electives	00000000170	00000000019

Status Indicates whether an item is *Completed* or *Not Completed.* This value will ultimately be set based on the APT item status (planned for the future). For now, the status can be set manually at the APT item level.

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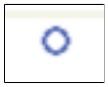
See Managing APT Items

Indicates the status of the item is *Completed.*



Indicates the status of the item is *Not Completed.*

For information about the Enrollment Category, APT Item Seq, and AIR Item ID columns, refer to the previous documentation about these fields for the AIR Tree page.

Managing APT Items

The APT Items page provides a view of all items in an APT instance and their related detail. The three levels of data for an APT item are:

1. The APT Item Sequence level (SSR_APT_ITEM) which holds high level data such as the item sequence, weight, and status.

2. The Academic Item Attempt level: An academic item can have multiple attempts attached to it. An item such as COURSE can be repeated without altering the structure of the program. For example, a first year course can be repeated during the second year, but the outcome/credits apply to the first year requirements. Data such as academic year and term are also tracked at this level.

3. The Academic Item Attempt Results level: Each attempt can have multiple results associated with it. There can be multiple Result Types and the structure also accommodates multiple instances of the same result type. This structure allows you to define your own result profile – where the institution determines what type of data is used to track results. It also allows for different versions of results – for example, *preliminary, board approved.*

As you can see in the following page example, an Academic Item Attempt can have Attempt Schedule data (sibling) and can have multiple Results rows. The same structure is available for all academic items - the course item shown in the example page has the same basic APT structure as the Study Period item shown above it on the example page.

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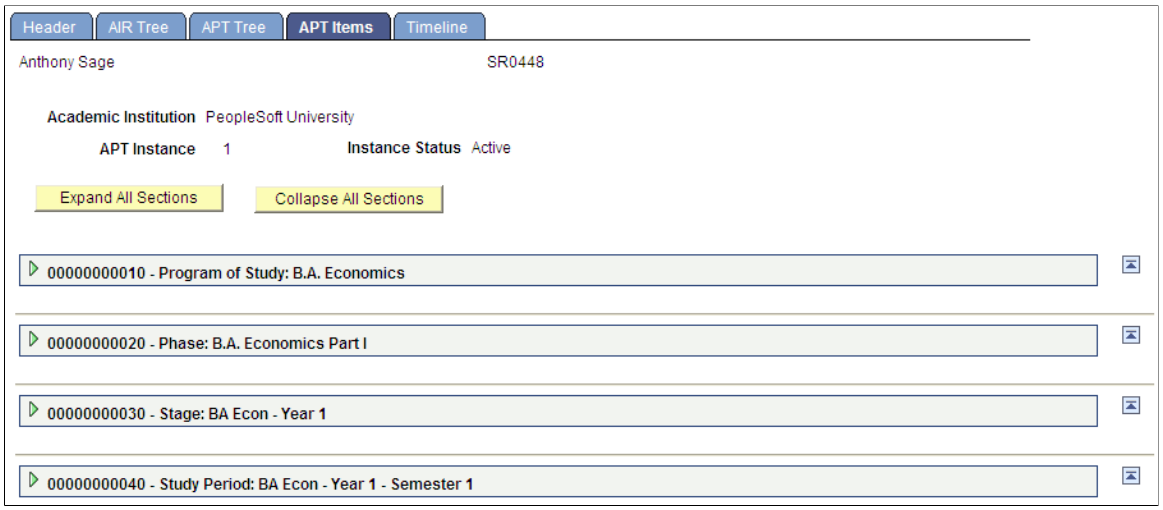
Access the APT Items page (Records and Enrollment, Program Enrollment, Academic Progress Tracker, APT Items).

Image: APT Items page (1 of 3)

This example illustrates the fields and controls on the APT Items page (1 of 3). You can find definitions for the fields and controls later on this page.



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Bundle 34: Reason Code removed from APT Item Seq level

Image: APT Items page (2 of 3)

This example illustrates the fields and controls on the APT Items page (2 of 3). You can find definitions for the fields and controls later on this page.

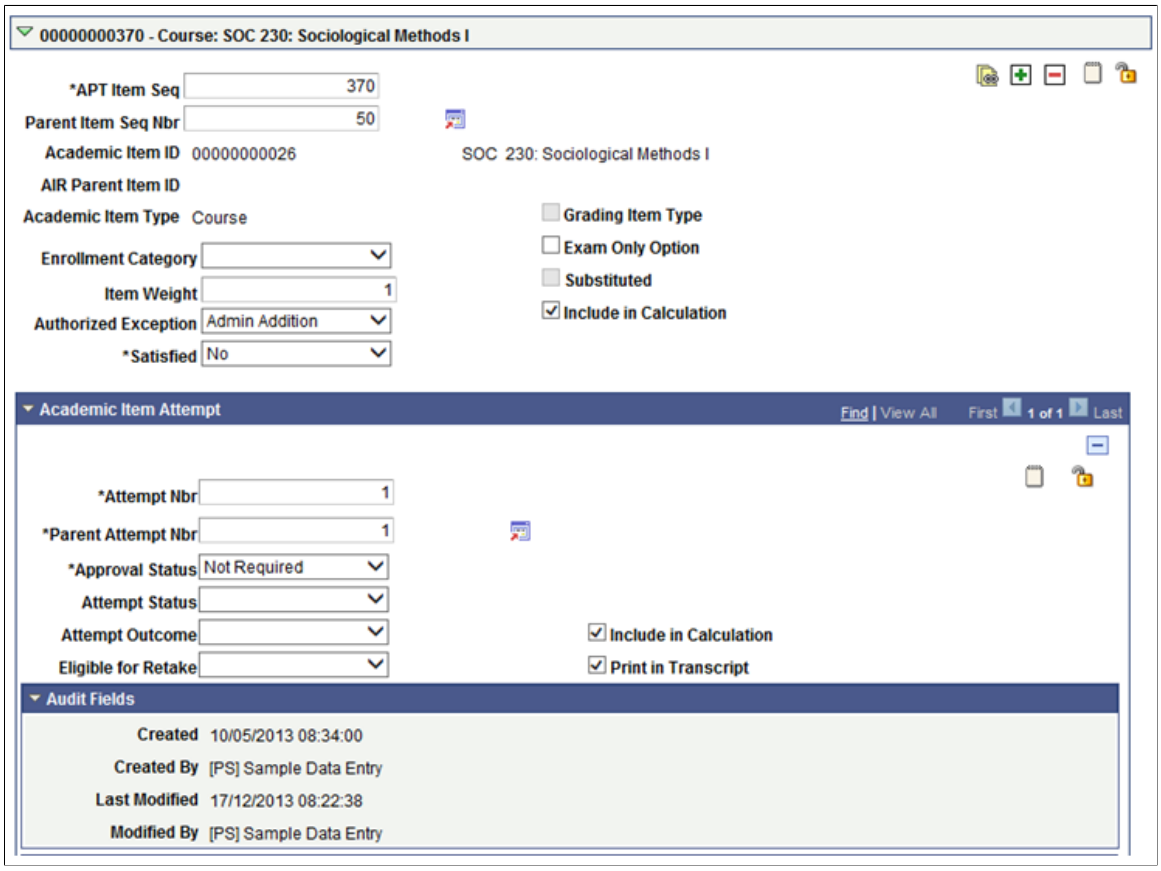
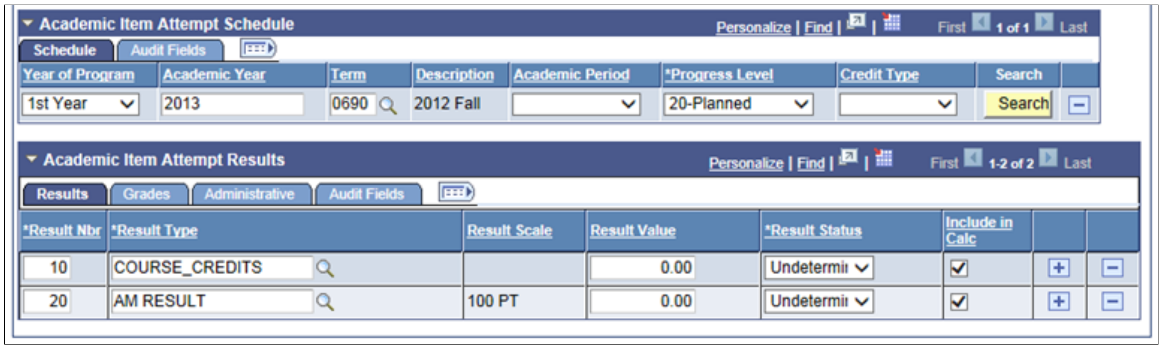


Image: APT Items page (3 of 3)

This example illustrates the fields and controls on the APT Items page (3 of 3). You can find definitions for the fields and controls later on this page.



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APT Items Page: APT Item Sequence Level

Process Substitution	See: Substituting APT Items
Add	See: Adding Child Items
Delete	Item Delete is available for all APT items, however delete is prevented on save if the item being deleted has child items.
Add Notes	Click to access a secondary page Item Notes where you can add notes and comments.
Lock	Click to lock the item and all of its child items. A locked item cannot be updated: all fields at the item, attempt and result level are display only.
Unlock	Click to unlock the item and child items that are locked.
APT Item Seq	The APT Item Sequence is assigned as items are added to an APT Instance. You can change the value to reorder items when required.
Parent Item Seq Nbr	This value is the APT Item Seq value of the parent item. You can change this value if you need to move an item to a different area of a student's program (for example, from one stage to another).
Go	Use the Go icon to quickly navigate to the parent academic item.
Academic Item ID and **Academic Item Type**	Displays the Academic Item ID and Academic Item Type of the item copied from the AIR program structure to the student's APT.
Grading Item Type	Display only. This check box is selected when the APT row was created to represent a (child) grading item from AIR.
Item Weight	If an item has a weighting value (in the context of its parent), it is moved to this field when the item is saved to APT. You can change this value, to override the contribution of a particular item to a higher level calculated result.
Authorized Exception	This field displays only when an item that has been added to the instance does not exist in the Academic Item Registry as an item for the student's program. There is currently only one value: *Admin Addition.*
Satisfied	Select *Yes, No,* or *Waived.* A value of *Yes* indicates that the requirements for an item have been satisfied and that the item (in combination with the

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	Include in Calculation check box) can be used towards program completion/results calculation.
Exam Only Option	Select this check box to indicate that an item (and all child items) will be satisfied by exam only – that is, no course enrollment is required. This feature is planned for the future.
Include in Calculation	When this check box is cleared, all attempts/results for this item are ignored for result calculation purposes by the Rules Engine and system calculated results. Note: This feature is planned for the future.

APT Items Page: Adding Child Items

In most cases, the items (courses and so on) that are added to an APT instance will be drawn from the items that are linked to the student's program. However, in some cases it might be necessary to make changes to a student's program by adding items that are not linked directly to the student's program of study or to remove items that are part of the program requirements defined in AIR. A typical example is where the student, usually in consultation with an advisor, is allowed to create a personalized or customized set of courses. This could apply to whole program or to a section of a program - a year or semester for example. In this case, it is likely that you will define an item that is really a placeholder for the program itself, or the year of program, to which you will add child items to represent the student's *custom* program. However, the Add feature allows you to add child items to an APT item with some exceptions.

When you add an item, you are presented with a list of values that is compiled as follows:

- If the current item is a Program Format Tree Node, the prompt lists all academic items that have an academic type specified as a valid child item in the Academic Item Type Matrix.

  See Identifying Child Item Types and Syncing Entities

- The prompt also excludes those items that have an item type defined as a Program Format Tree Node. This ensures that any changes to the program structure conform to the Program Format for the item.
- All available COURSE items (unless the item is being added as a child of a COURSE – *except where* the current item is a Course Group, in which case a secondary page will list the courses that match the Course Group parameters).

Example: Add Child item to Year 1 of Program BA Economics:

- BA Economics has a Program Format comprised of Academic Item Types: PRG (Program), PHASE (Part 1 and 2), STAGE (Year), and STUDYPERIOD (term/semester).
- Year 1 has an Academic Item Type of Year with an Item Type of STAGE.
- Therefore, the available items to be added as child items would be all valid child items (according to the Item Type matrix) of the item type STAGE, excluding PRG, PHASE, STAGE, STUDYPERIOD, plus all available COURSE items.

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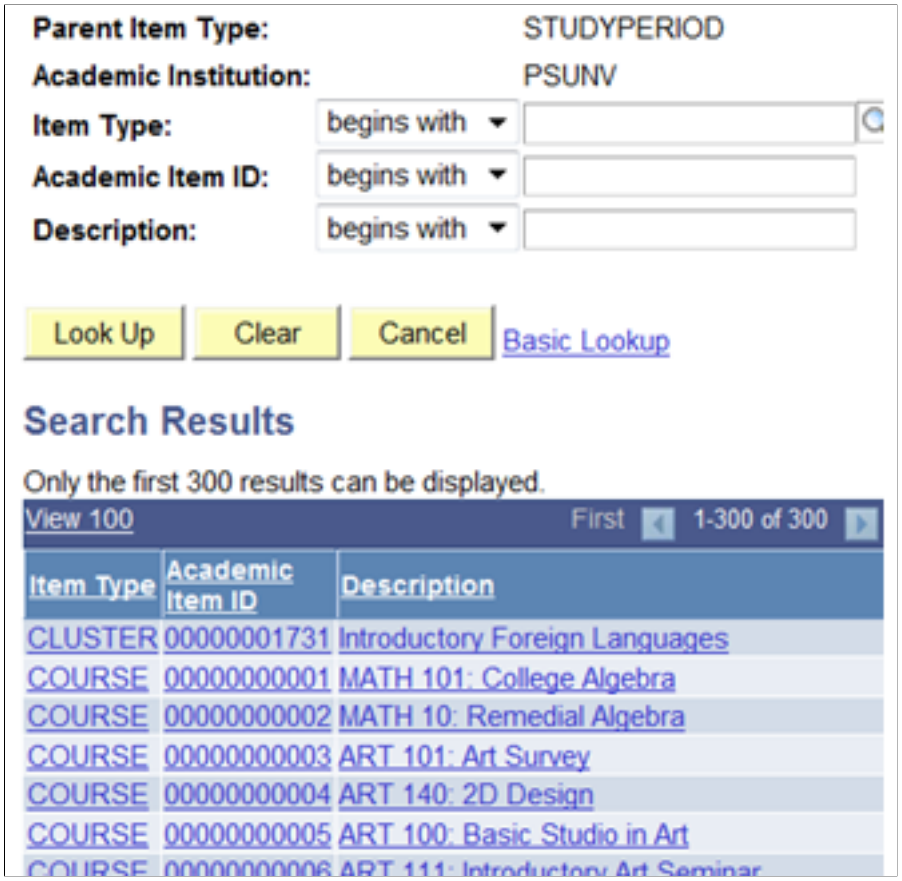
APT Items Page: Substituting APT Items

The APT Item structure supports the need to substitute prescribed program content (academic items) with courses or other types of academic items. The substitution process typically involves the swapping of one course for another, but it is also possible to substitute different types of academic items, as well as the replacement of one item with many items. It is also possible to replace an item of one type with one (or more) of a different type.

Note: Not all academic items can be substituted: the Process Substitution button is hidden when an item has an academic type identified as a program format tree node, or if the item itself has been replaced with another APT item. The button is also hidden for any item that has child items in APT. For example, a Course List item, from which child item courses have been placed in APT cannot be substituted.

Image: Process Substitution example

The Process Substitution button invokes a look up against Academic Item Registry for the institution attached to the student's APT instance.



The prompt lists all non-program format tree node academic items (with effective dated logic) that are *valid child items (according to item type matrix) of the parent item of the item* which is being substituted.

After an item has been selected, the Substitution function performs the following actions:

Substituted Item

- Selects the Substituted check box for the item.

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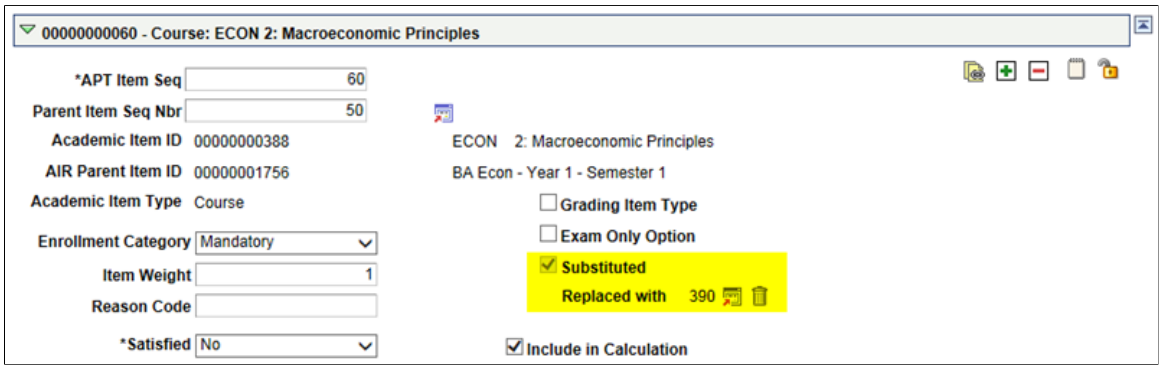
- Creates a pointer on the substituted item to the *Replaced with* items.

Image: Process Substitution Example 2

This example further illustrates process substitution:

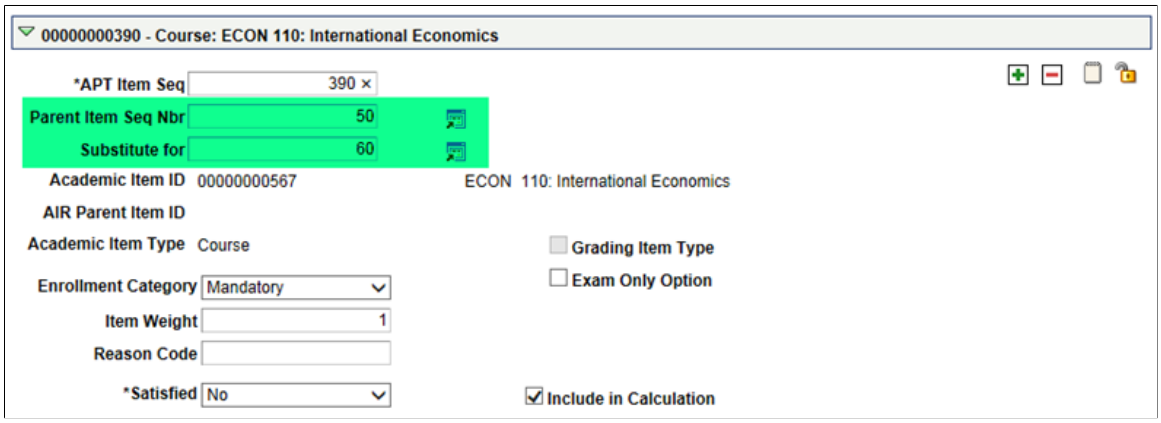


The *Replaced with* item is inserted into the APT Instance:

- Sets the parent value of the item to that of the substituted item.
- Ties the new item to the substituted item by recording that APT Item Sequence number of the substituted item.
- Note: The Process Substitution button is not available for the replacement item(s).

Image: Process Substitution Example 3

This example further illustrates process substitution:



Reversing an APT Item Substitution

To reverse a substitution:

- On the substituted item: Delete the *Replaced with* value(s) using the Replaced with delete button.
- Delete the replacement item using the Item Delete button.

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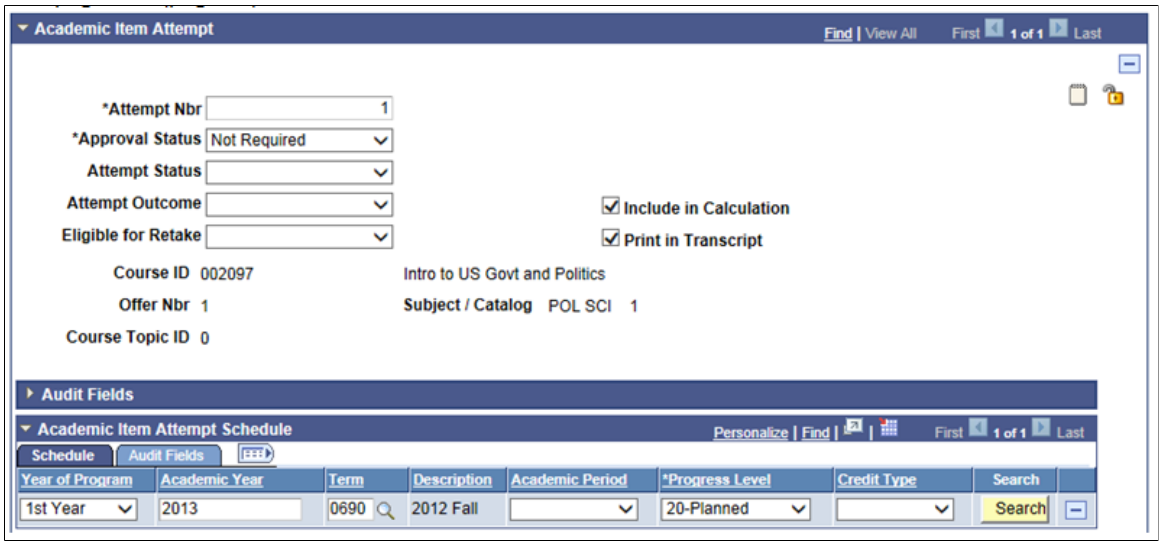
APT Items Page: Academic Item Attempt Level

An APT item can have multiple attempts. For example, if a student needs to retake a Year 1 course during Year 2, you could add a new attempt row under the Year 1 item, rather than moving that item from year to year. Each attempt has attributes attached to it.

Image: APT Items page: Academic Item Attempt level

This example illustrates the fields and controls on the APT Items page (Academic Item Attempt level). You can find definitions for the fields and controls later on this page.



Create New Attempt

This button is available if the attempt Eligible for Retake check box is selected (see information about this check box later in this section). When you click this button, a new attempt row is created for this item. The system also creates new attempts for any unlocked child item attempts for which the Eligible for Retake check box is selected. This is optional.

Add Notes

Transfers to a secondary page Item Attempt Notes where you can add notes and comments.

Locks the attempt. A locked item attempt cannot be updated: all fields at the attempt and result level are display only.

Unlocks the item attempt.

Attempt Nbr

A system assigned value. Multiple attempts can exist for an APT item.

Approval Status

This field is used when approval is required for enrollment planning - that is, when an advisor must approve the course entries in the student's APT for a particular stage/study period before the student enrolls. The approval requirement is based on the Requires Approval check box on the Academic Item Registry page.

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Note: This feature is planned for the future.

Attempt Status This field indicates that enrollment/credit requirements for an item attempt have been completed (*20: Completed*) and when the attempt can be counted towards satisfying the item itself and for result calculation (*60: Finalized*).

Attempt Outcome This field will indicate whether the item attempt was successfully completed.

Print in Transcript This value can be used to determine if an item attempt is included in user defined transcript or report.

Eligible for Retake If the value in this field is *Yes,* the item can be retaken. This field is used to determine whether a new attempt is created.

Refer to the "Managing Retake Processing" documentation section later in this topic.

Include in Calculation When multiple attempts exist, select this check box to indicate which attempt should be used to determine the status/result for an academic item. The check box is selected by default.

Course ID, OfferNbr, and **Course Topic ID** These values display for Course academic items

Academic Item Attempt Schedule grid:

For information about Personalized Timeline,

See Using the APT Timeline

Seq Nbr A system assigned number. An academic item attempt can have more than one schedule sequence. This could happen if a student completes an item over a number of terms. A typical example might be where a program is organized into Year 1, Year 2 and so on and where a part time student could take more than the prescribed 2 semesters to complete the requirements.

Year of Program This field is populated when:

- APT row has an Academic Item Type which is equated to Year of Program (in the program format definition for the program).
- APT row has an Academic Item Type which is equated to Term (in the program format definition for the program).
- APT row has an Academic Item Type of COURSE.

Academic Year This field is populated when

- The student's APT header has an Enrollment Cohort value which been mapped to term values (this is not required) or a Personalized Timeline has been established and

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- APT row has an Academic Item Type which is equated to Term (in the Program Format definition for the program).
- APT row has an Academic Item Type of COURSE.

Term

This field is populated when:

- The student's APT header has an Enrollment Cohort value which been mapped to term values (this is not required) or a Personalized Timeline has been established and
- APT row has an Academic Item Type which is equated to Term (in the Program Format definition for the program).
- APT row has an Academic Item Type of COURSE.

Session

This field is populated when:

- The student's APT header has an Enrollment Cohort value which been mapped to term and session values (this is not required) or a Personalized Timeline has been established and
- APT row has an Academic Item Type which is equated to Term (in the Program Format definition for the Program).
- APT row has an Academic Item Type of COURSE.

See: Assigning Year of Program, Academic Year and Term (STRM) Values to Academic Items added to APT later in this section.

Academic Period

This field is for future use.

Start Date and **End Date**

The start and end dates for the academic item. These fields are intended primarily for non-course based academic items that might not necessarily be scheduled in term/session–an internship for example. These dates can be used to provide a time frame for an item that is not tied to a formal academic teaching period.

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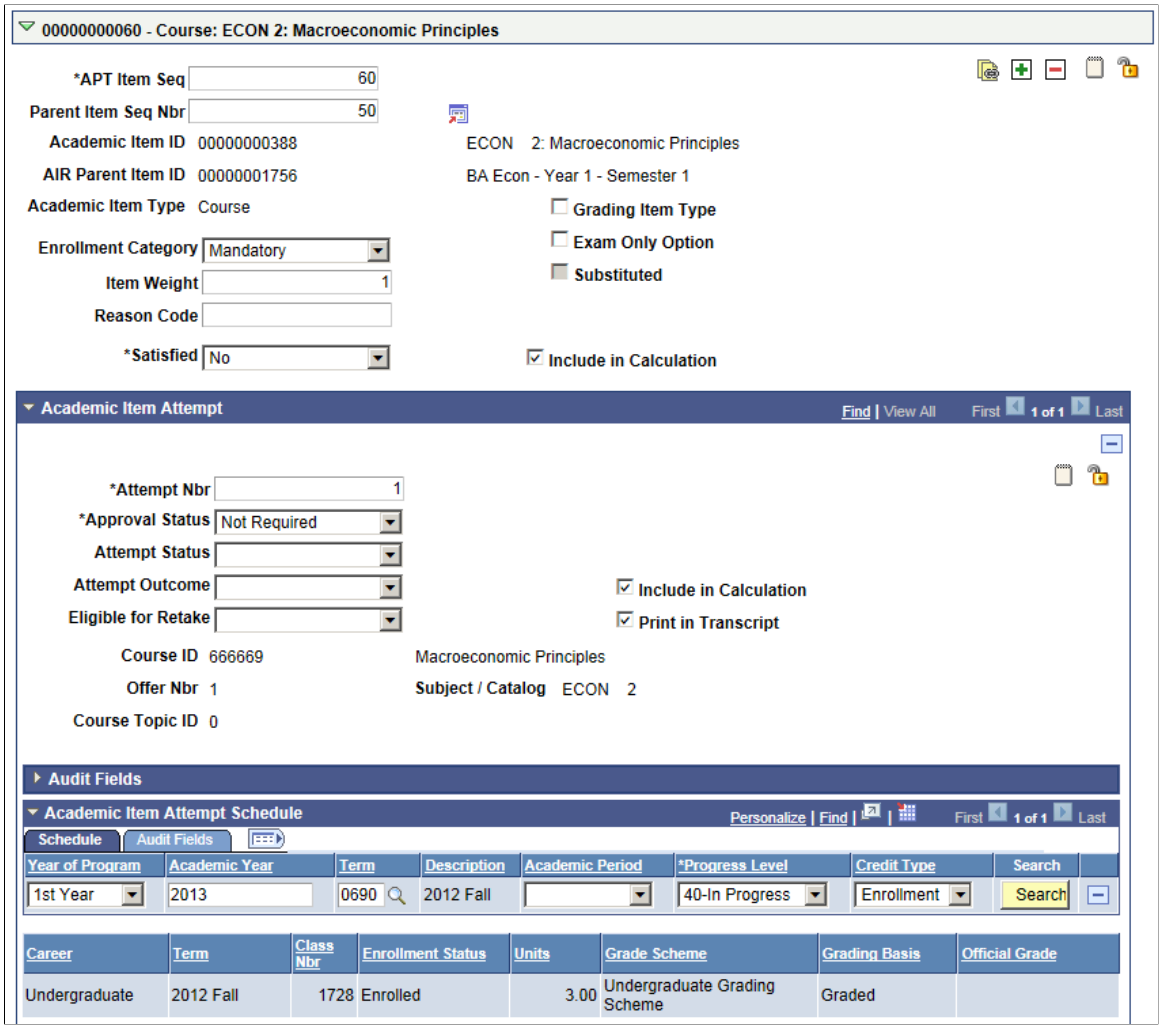
For course items, the Start Date and End Date fields are replaced with the other fields as in the following example page.

Image: APT Items Page: Course item example

This example illustrates the fields and controls on the APT Items Page (Course item example). You can find definitions for the fields and controls later on this page.



Progress Level

Indicates the status of the COURSE being applied to this item/attempt.

When a course item is added to APT, this value is set to *Planned.* After a student is enrolled in a class section of the course, the value is set to *In Progress.* If the student subsequently drops the class section and it is deleted from STDNT_ENRL or retained in 'Dropped' status, the Progress Level value is set to *Dropped.* The level is set to *Completed* after a grade is present in STDNT_ENRL (the grade must earn credit).

See Managing APT Enrollment

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See the Student Enrollment Event document on My Oracle Support Doc ID 1400723.1.

Credit Type Indicates whether the course is being completed or was completed through class enrollment or from transfer credit.

Search Launches a process to find a match for the COURSE item in STDNT_ENRL or Transfer Credit Model (including Test and Other Credit).

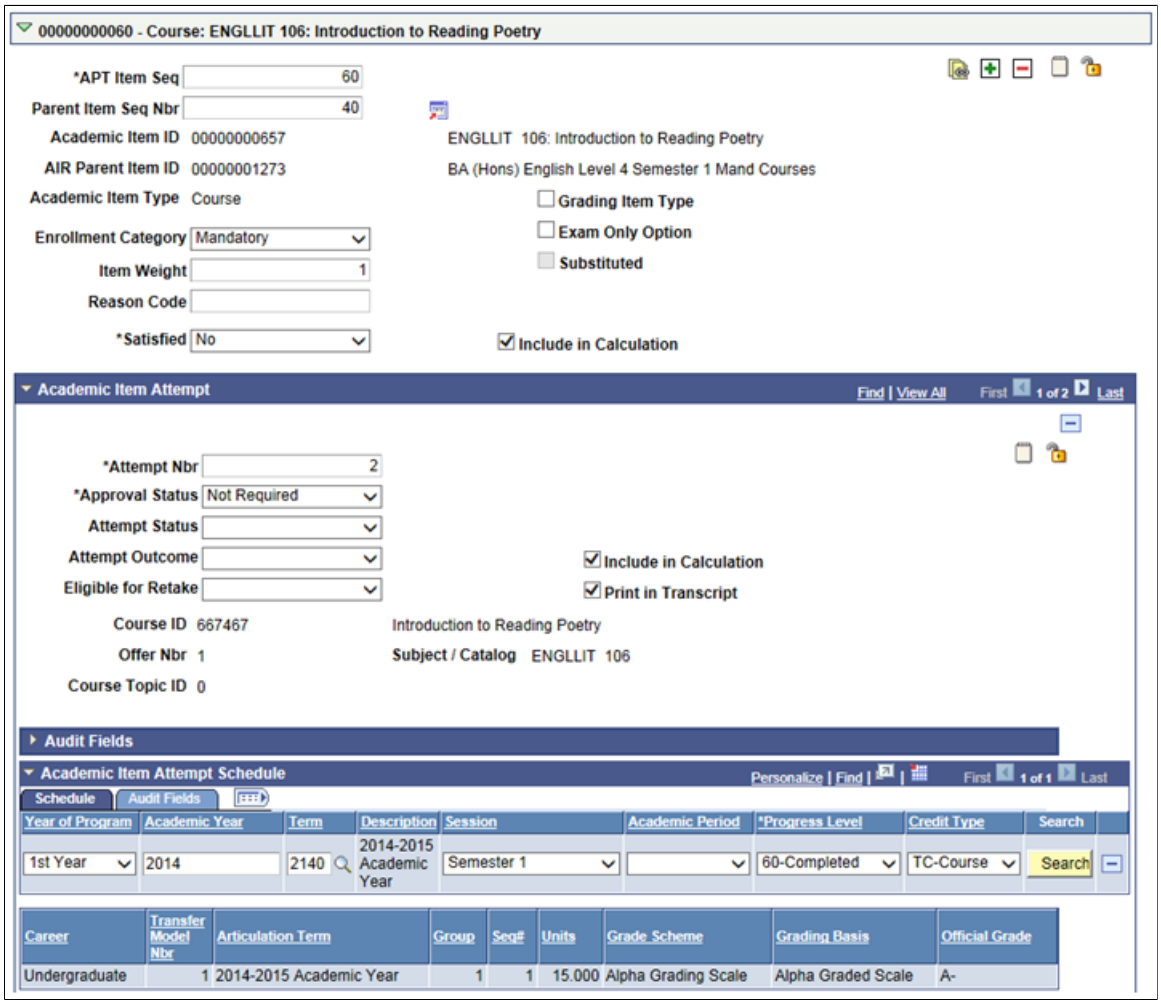
Career Displays the student's career for the matching STDNT_ENRL row (as opposed to the course career).

Values appear in the remaining fields based on the matching STDNT_ENRL row.

Here is an example in which the Credit Type is Transfer Credit:

Image: APT Items page: Credit Type example

This example illustrates the fields and controls on the APT Items page (Credit Type example). You can find definitions for the fields and controls later on this page.



Values in the fields such as Career, Transfer Model Nbr and so on appear based on the matching Transfer Credit row.

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APT Items Page: Attempt Schedule Search

This feature simulates the processing that occurs after a student is enrolled by providing a link to the source of the course credit. For enrollment, this link is established by an Enrollment Sync process that performs updates to a student's APT instance after enrollment is processed by the enrollment engine.

See Managing APT Enrollment

See the Student Enrollment Event document on My Oracle Support Doc ID 1400723.1.

The Search function creates this link by finding a match for a particular course and save the keys to the enrollment or transfer credit row in the appropriate table. The search process attempts to find a match in STDNT_ENRL and Transfer Credit, using the EMPLID and INSTITUTION of the instance as well as the CRSE_ID, CRSE_OFFER_NBR, and CRSE_TOPIC_ID (if they are present). If more than one match is found, you can select from the results.

Enrollment (STDNT_ENRL):

- When the matching row is selected, the row is saved to a new table SSR_APT_ENRL.
- Academic Year/Term on the schedule row is updated if the term of the matching course is different. For example, if a course is assigned to 0690 and the only match is in 0630, the term and academic year values are updated.

Transfer Credit

- When the matching row is selected, the row is saved to a new table SSR_APT_TRCR.
- Academic Year/Term on the schedule row is updated if the articulation term of the matching course is different. For example, if a course is assigned to 0690 and the only match is in 0630, the term and academic year values are updated.

APT Items Page: Assigning Year of Program, Academic Year and Term (STRM) Values to Academic Items added to APT

Although the APT data is not defined by term, you still need to track data by academic year/term as well as by the Year of Program (YOP) attribute. Using a combination of the Program Format definition attached to the PRG item and (if one exists) the Enrollment Cohort term and definition for the student, data is recorded as items are added to the APT so that you can query the data by academic year, term, or a student’s year of program.

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Here is an example of Program Format/Enrollment Cohort data:

Image: Program Format / Enrollment Cohort example 1

Program Format data:

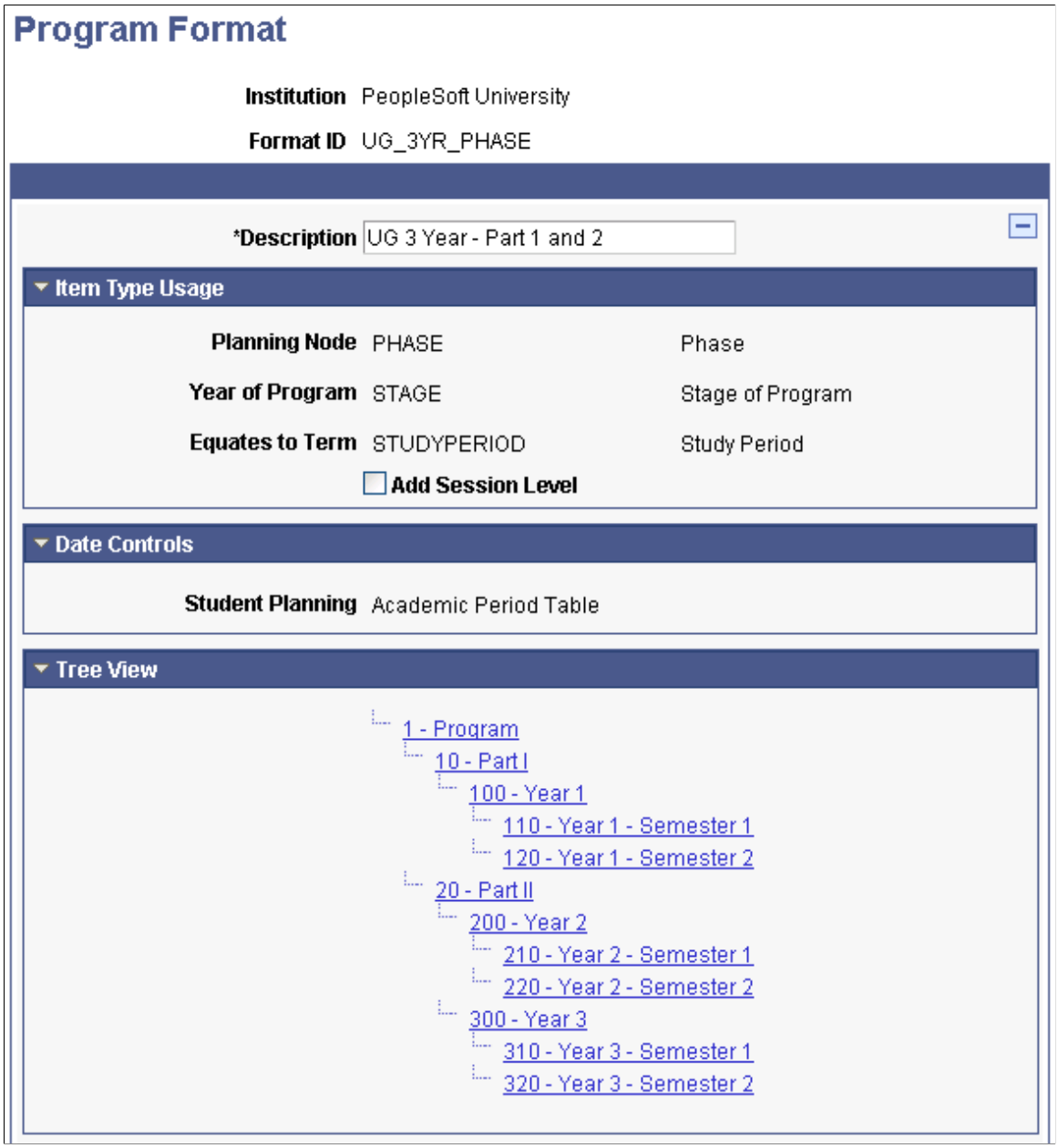

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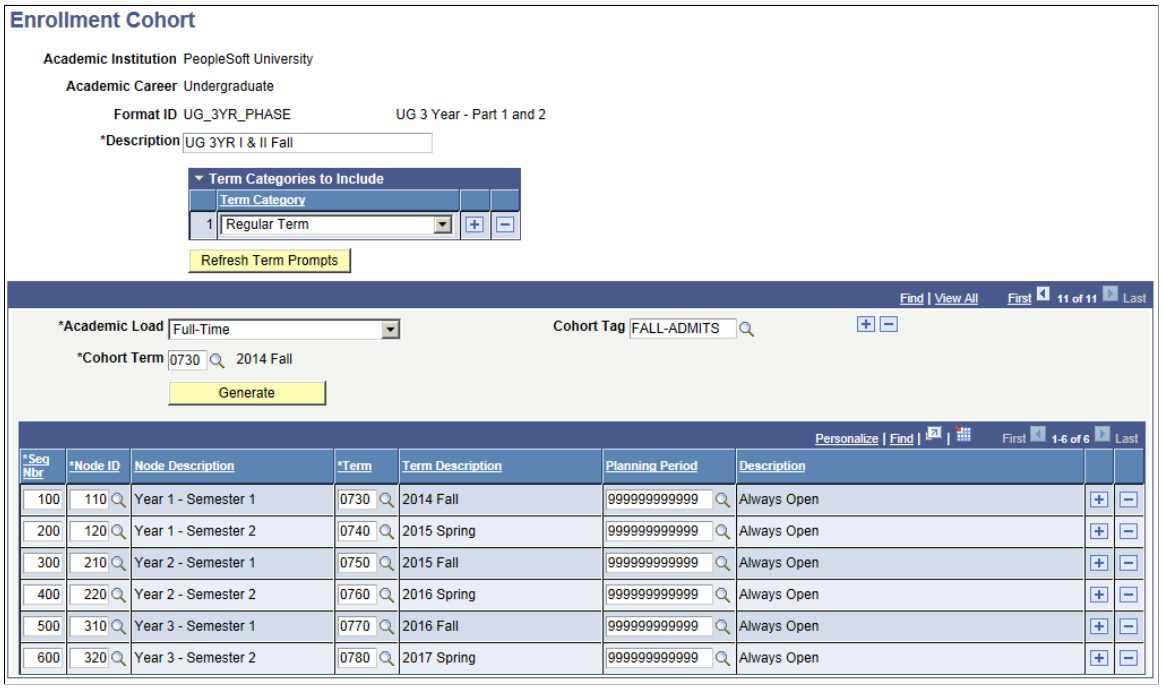
Image: Program Format / Enrollment Cohort example 2

Enrollment Cohort data:



The Program Format nodes which are equated to Year of Program and Term determine which academic items will be used to record year of program, academic year, and term data in APT.

A session level can also be defined for use in term configurations where a term (STRM) value represents an academic year and a session (SESSION_CODE) is used to represent ‘term’ (for example, semester 1, semester 2). See: Academic Year and Term Data with Session Level section below.

See Setting Up Program Formats

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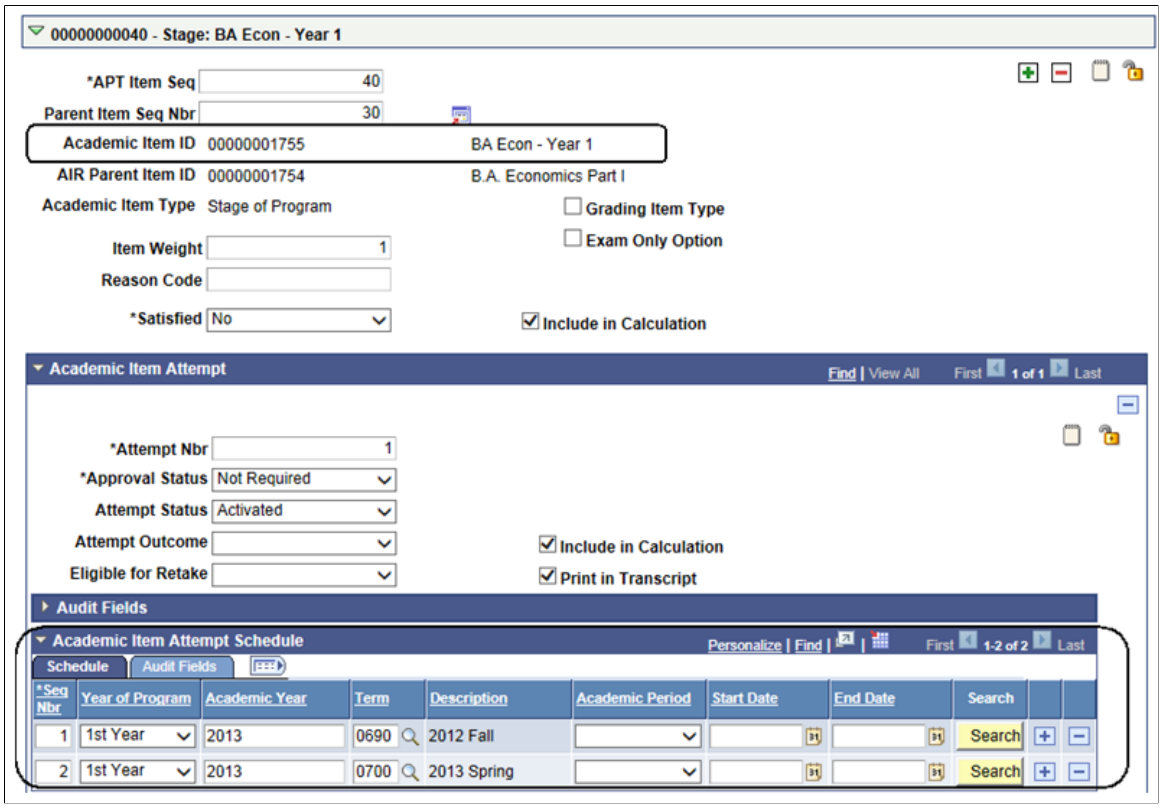
Equates to Year of Program Items: Year of Program Data:

Image: APT Items page: Equates to Year of Program example

Equates to Year of Program example:



- A year of program value is assigned as the academic items equated to Year of Program (in the Program Format definition) are added to the APT.

  Academic Year, Term and Session (if applicable) values are also assigned. In this case the term value is assigned based on the term values that are assigned to the child equates to term item (BA Econ Year 1 - Semester 1 - see below).

- The example above shows Year 1 – B.A. Economics. When Year 2 is added (as a result of seeding or a course being added to APT) this will be assigned to 2nd Year and so on.

Equates to Term (EQT) Items: Year of Program, Academic Year and Term Data:

This data is recorded for the following:

- Academic Item(s) equated to Term (in the program format definition for the program).
- All COURSE academic items.

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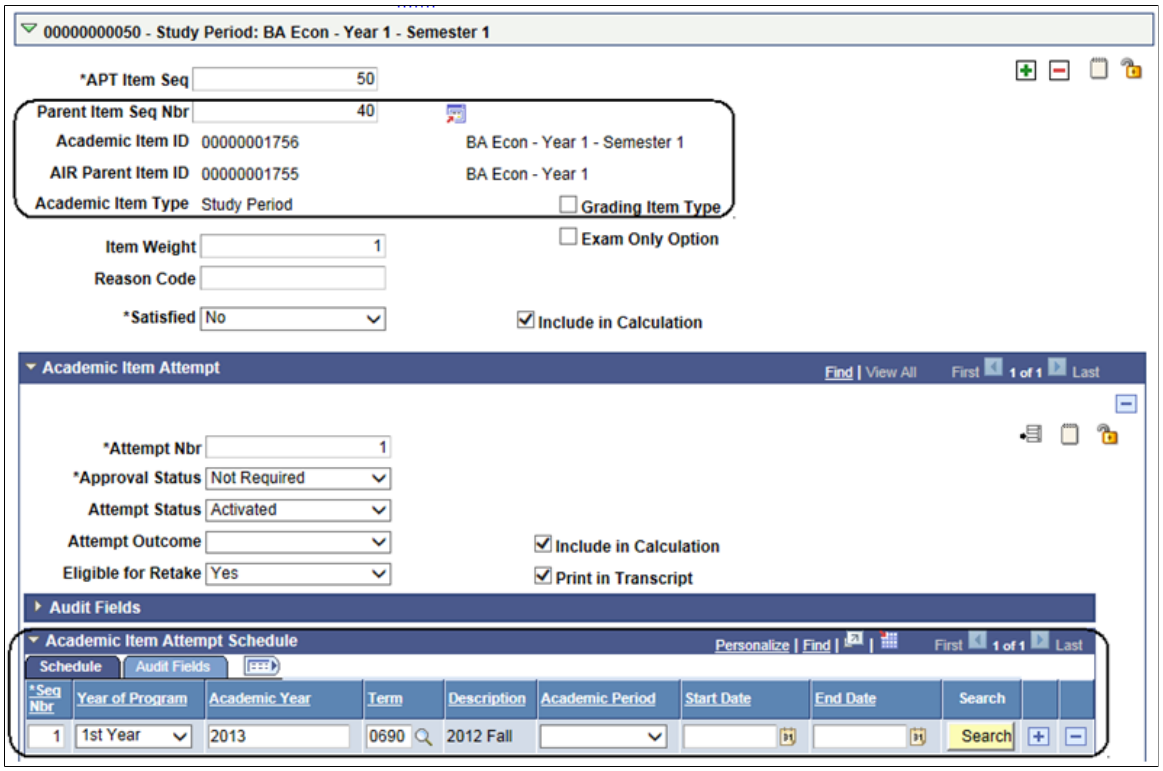
A year of program, academic year (derived from the term) and term are recorded for each of these.

Image: APT Items page: Equates to Term example

Equates to Term example:



For information about Personalized Timeline,

See Using the APT Timeline

Year of Program

If the item is also equated to year of program, this value is taken from the Program Format definition; otherwise the value is determined using the program definition value for a parent, grandparent and so on. In this example, the YOP value from the parent STAGE item is used to determine the value for the STUDYPERIOD.

Academic Year

The TERM_TBL.ACAD_YEAR value for the term value (STRM) returned from the Enrollment Cohort or Personalized Timeline (see Term).

Term

Uses the Node ID associated with the Academic Item Type in the Program Format definition, to fetch the term value from the student's Enrollment Cohort or Personalized Timeline (if one exists). In this example, the STUDYPERIOD academic item has been identified as equating to term. A look-up is performed on the Enrollment Cohort using the Node IDs defined in the Program Format (this should be consistent if programs are defined using Build Program by Format).

Session

If the Program Format includes session level and the Enrollment Cohort or Personalized Timeline has Equates to Term nodes

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mapped to combinations of Term and Session, a session value will also be assigned.

Academic Year and Term Data with Session Level:

Year of Program and Equates to Term (and Session) levels can be tracked separately if the program format is defined this way. The following example shows an enrollment cohort based on a program format that

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has distinct equates to term (YEAR) and session (SEMESTER) items and how this data is recorded in APT:

Image: Program Format and Enrollment Cohort using Session Level example 1

Program Format example:

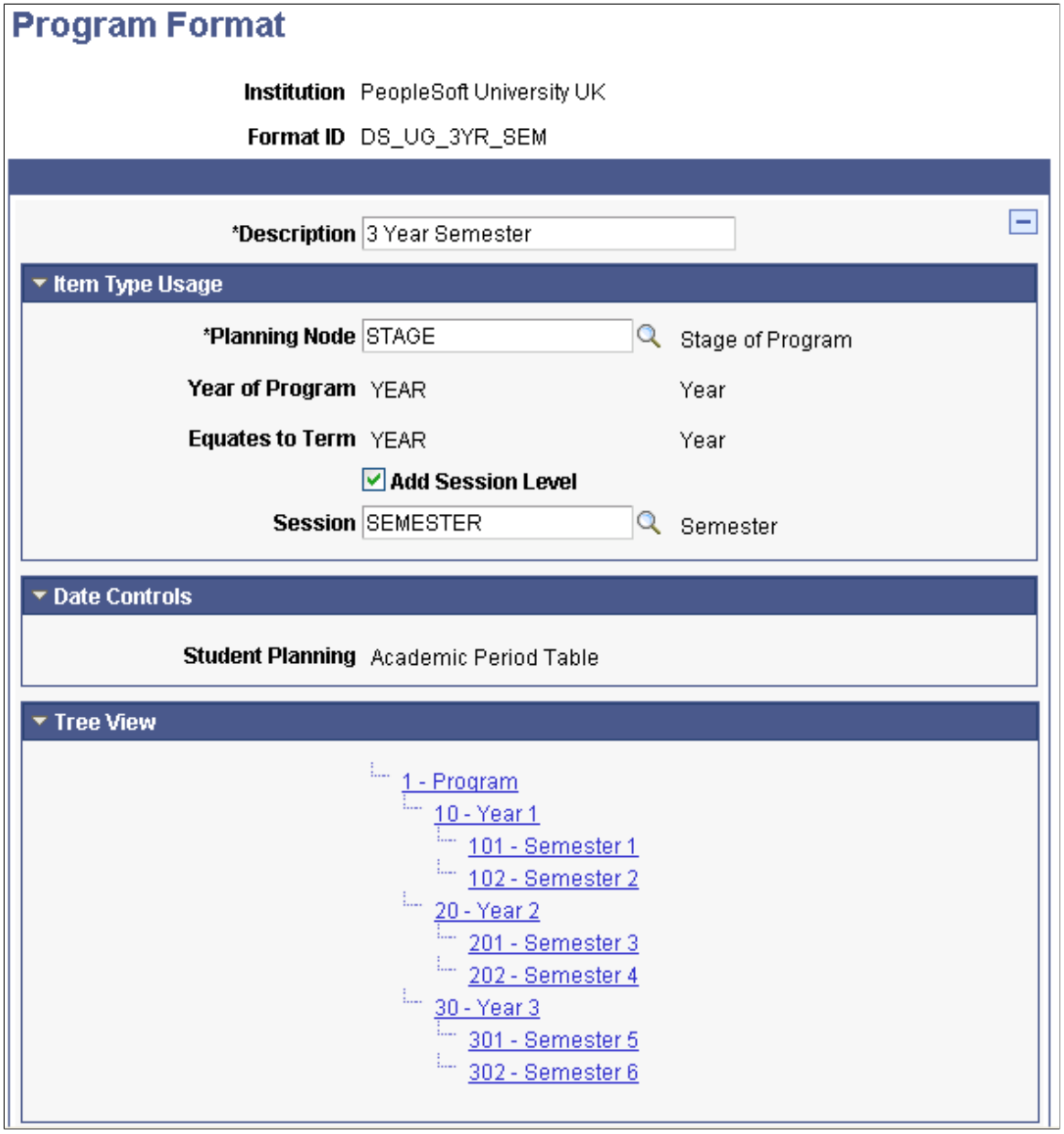

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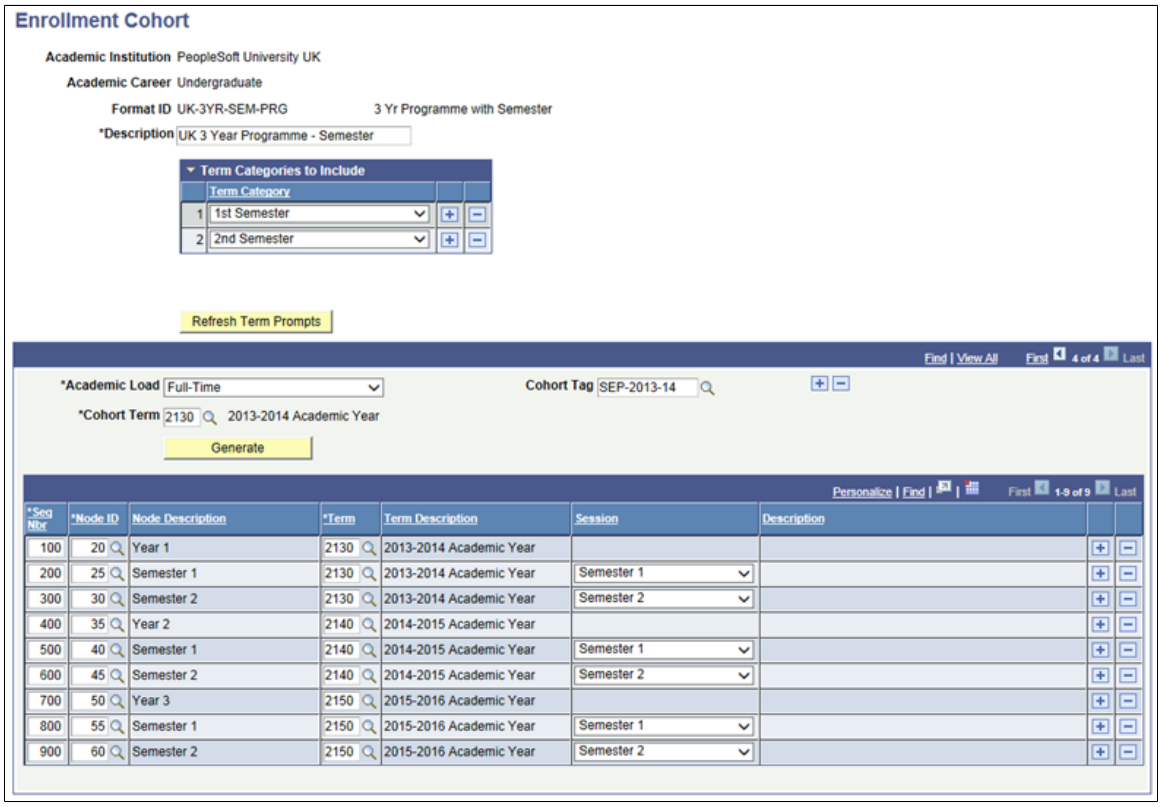
Image: Program Format and Enrollment Cohort using Session Level example 2

Enrollment Cohort example:



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With this configuration, the Year of Program and Equates to Term values are tracked at different levels because term can now be tracked down to the session level:

Image: Equates to Term item

Equates to Term item:

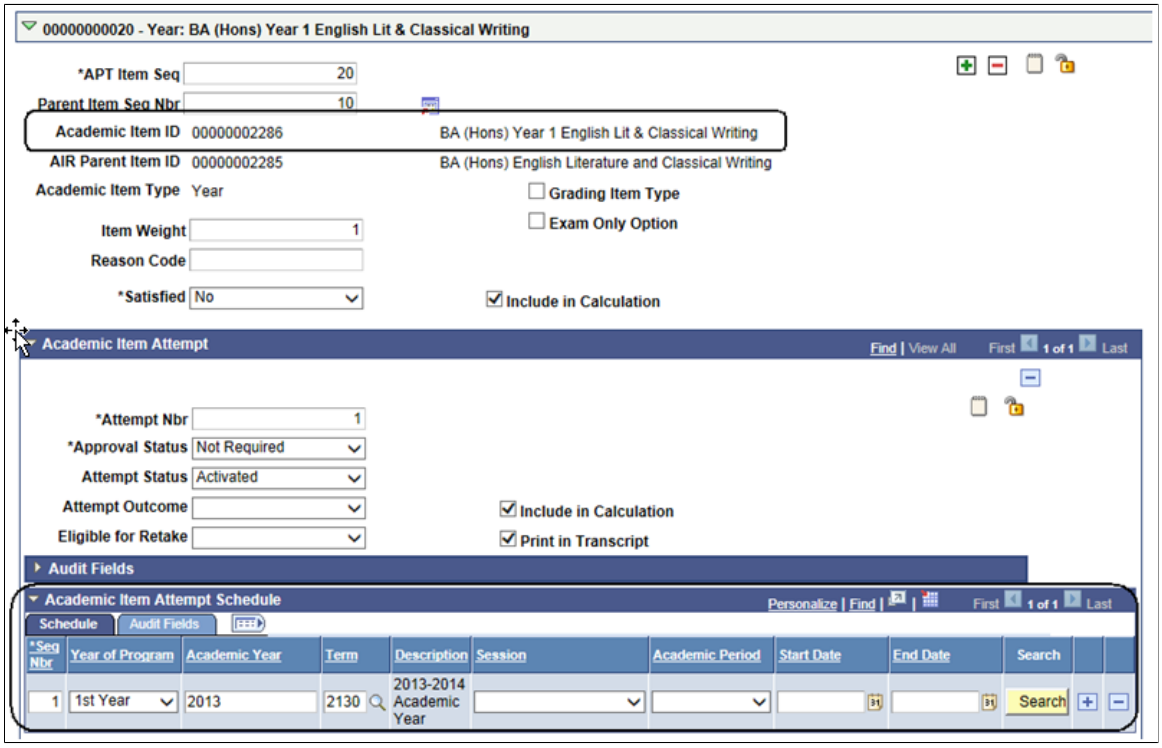

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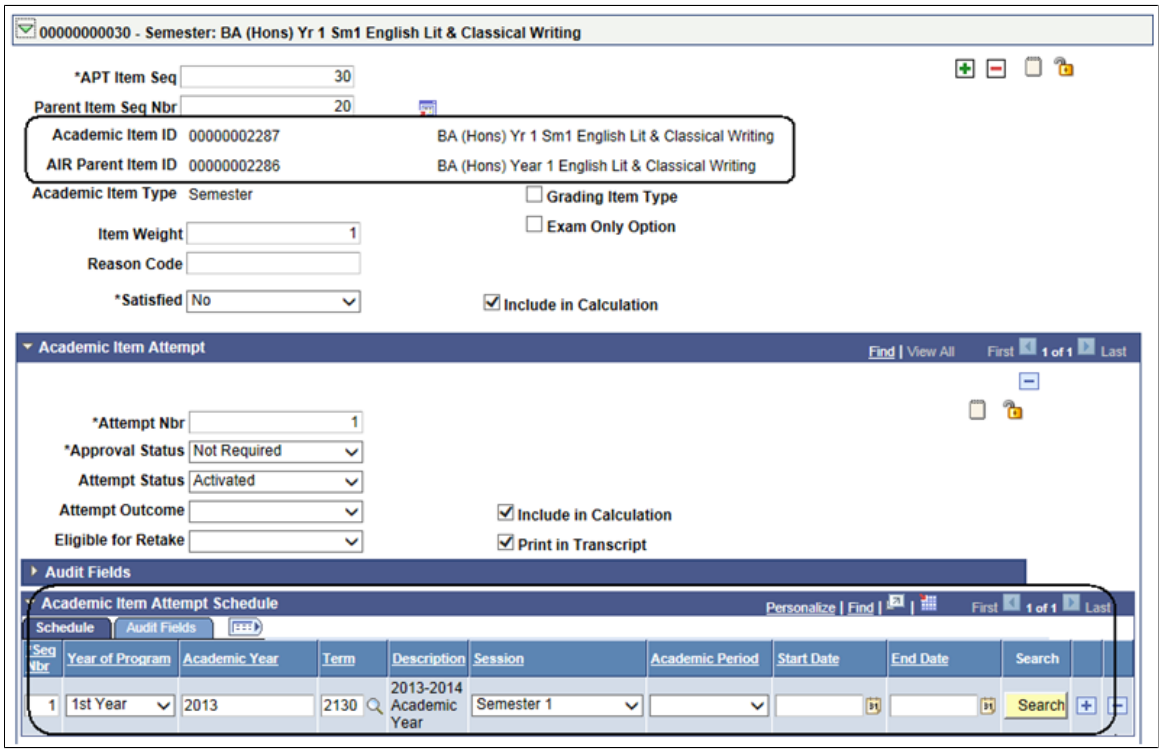
Image: Equates to Session Level item

Equates to Session Level item:



Course Items:

YOP, Academic Year and Term data is recorded for COURSE items as they are added to APT (either through the seeding process or as an individual course is added). The values are assigned in one of two ways:

1. The value is derived from the parent item when that item is equated to YOP and/or term (for example if a course is the child of a study period). See a) below.

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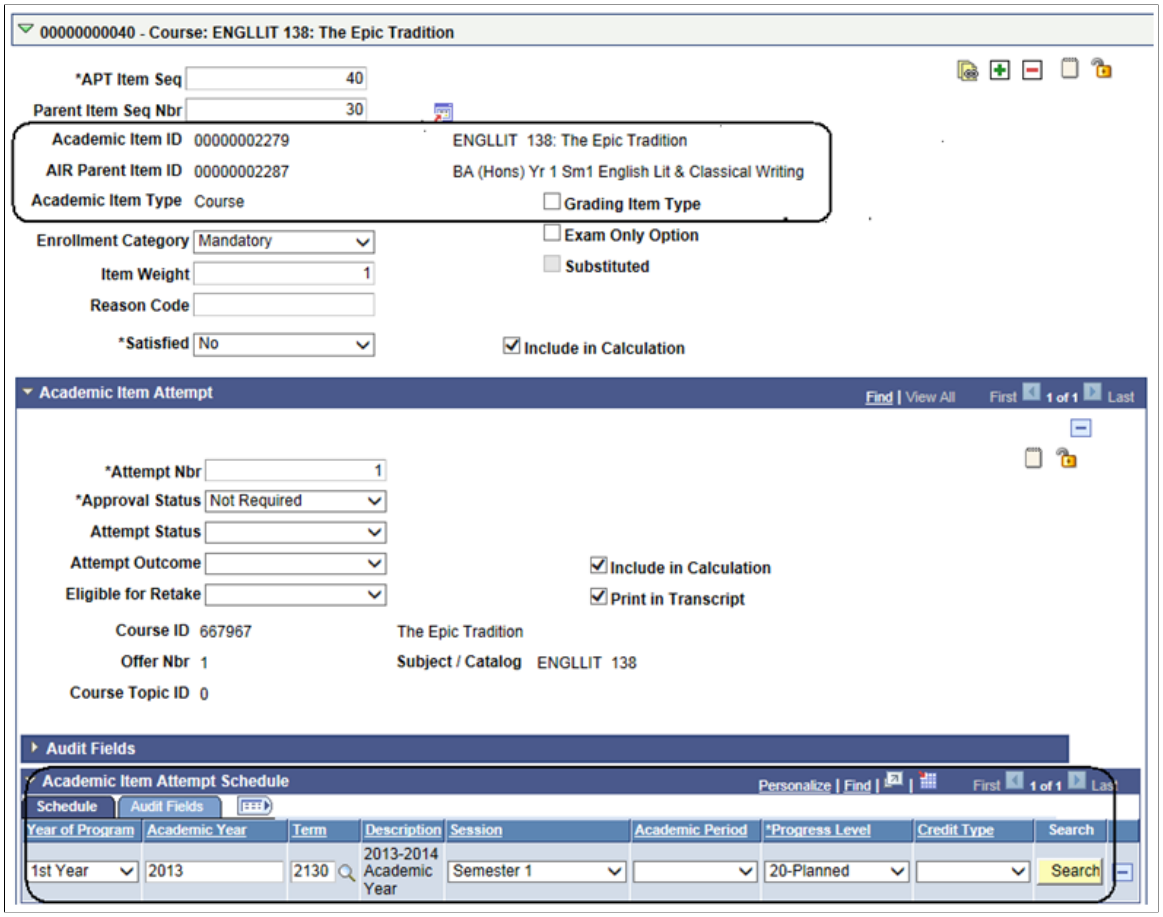
2. If the COURSE (or its parent) is not directly linked to an item that is equated to a term, the value is manually assigned by the user selecting from a list of values. See b) below and also see the following section “Assigning Term Values to Courses”.

Image: Course Items Example

Course Items example:



a) If the value is derived as the COURSE is added:

- Year of Program: If the COURSE (or its parent, grandparent) is linked to an academic item that equates to both YOP and term, the YOP from this item is used; otherwise the YOP value is derived from the parent of the item that equates to term. In this example, the COURSE is a child of a STUDYPERIOD (which equates to term), the STUDYPERIOD is child of STAGE which equates to YOP, and therefore the value from the parent STAGE is used here.

- Academic Year: The TERM_TBL.ACAD_YEAR value for the term value (STRM) returned from the Enrollment Cohort or Personalized Timeline (see Term).

- Term: If the COURSE is linked to an academic item which equates to term, the value is derived from parent/grandparent and so on.

- Session: If the Program Format includes session level and the Enrollment Cohort or Personalized Timeline has Equates to Term nodes mapped to combinations of Term and Session, a session value will also be assigned.

b) If the value is selected by a user:

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- Year of Program: Is assigned by using the YOP value from the academic item (if the academic item equates to term and also equates to YOP); otherwise the YOP value is derived from the parent of the Equates to Term item.
- Academic Year: The TERM_TBL.ACAD_YEAR value for the term value (STRM) returned from the Enrollment Cohort or Personalized Timeline (using the academic item selected during term choice).
- Term: The TERM_TBL.STRM value from the Enrollment Cohort or Personalized Timeline for the item selected during term choice (using the academic item).
- Session: If the Program Format includes session level and the Enrollment Cohort or Personalized Timeline has Equates to Term nodes mapped to combinations of Term and Session, the user will actually select a combination of term and session.

APT Items Page: Assigning Term Values to Courses

This section discusses choosing a “term” for a COURSE item that is not associated (according to lineage) with an academic item equating to term.

Image: AIR Program Structure example

An AIR COURSE, COURSELIST, COURSEGROUP or any user defined grouping of courses can be placed at any level in a program structure. A COURSELIST could be situated in the structure in such a way that while a student is required to complete them, they may do so at any point in the program. The program used in this example has a basic structure like this:

```
PRG (Program)
        >   PHASE (Part 1 and 2)
                        >   STAGE (Equates to Year of Program)
                                                >   STUDYPERIOD (Equates to
                                                    Term)
```

Any COURSE items that are associated with STUDYPERIOD items can be assigned a term using the Enrollment Cohort or Personalized Timeline (if one exists). However, you cannot know the term in which a COURSE associated with items above that level (PRG, PHASE, STAGE) is to be taken until the student actually plans/enrolls. In the example program used in this document, “Part 2” is comprised of two stages

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(Year 2 and 3) but there is a list of courses that the student must complete at some point during those two years.

Image: Item Details page: example for assigning term values to courses

This example illustrates the Item Details page (assigning term values to courses).

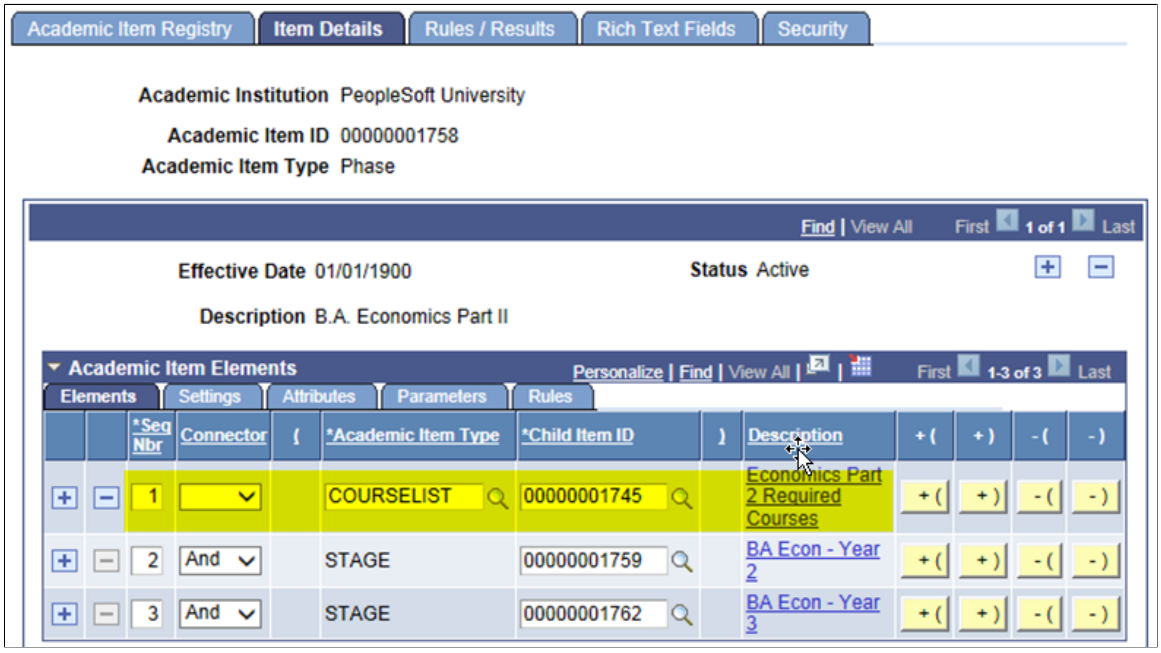
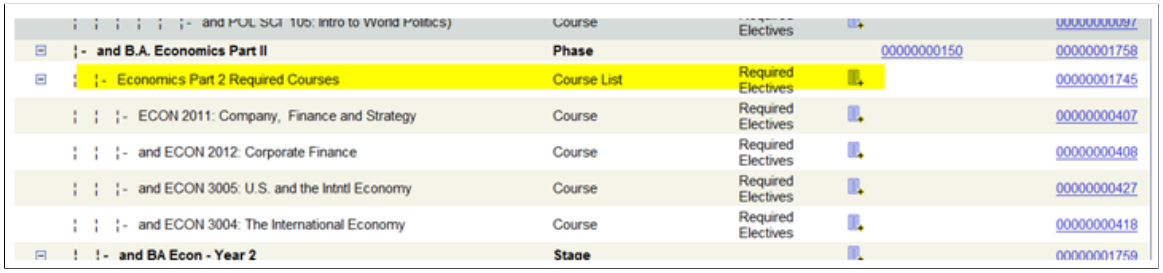


Image: APT example: assign term values to courses

This will be represented in APT as follows:



The Course List is a direct child of Part 2 and is not associated with a Stage (which equates to Year of Program) or Study Period (which equates to Term).

When a student (or advisor/administrator) selects a course that is placed in a program structure in this way, it ultimately must be assigned to a term for planning and enrollment purposes. To do this, the system must:

- Evaluate the children of the item where the course is situated.
- Determine which of those child items equates to term (this is determined by Program Format, where an Equates to Term value is required).
- Return a list of those items and prompt the user to assign one to the course.

In the example above, the courses are tied to the Phase level of the program structure. The immediate children of the PHASE item (other than the COURSELIST itself) are STAGE items, which equate to

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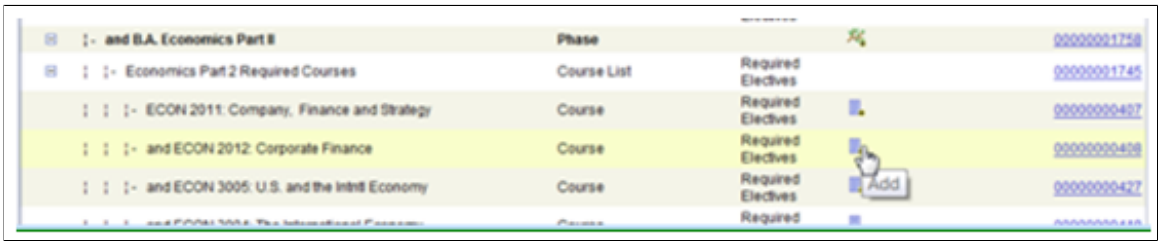
YOP. So in this particular case the system must go down another level. The STAGE items each have two child STUDYPERIOD items, which equate to term. All four of these must be available to the user, because this is the level at which enrollment will take place:

- User adds a course to APT:

  Image: APT example: add course step 1

  This example illustrates adding a course to APT (step 1).

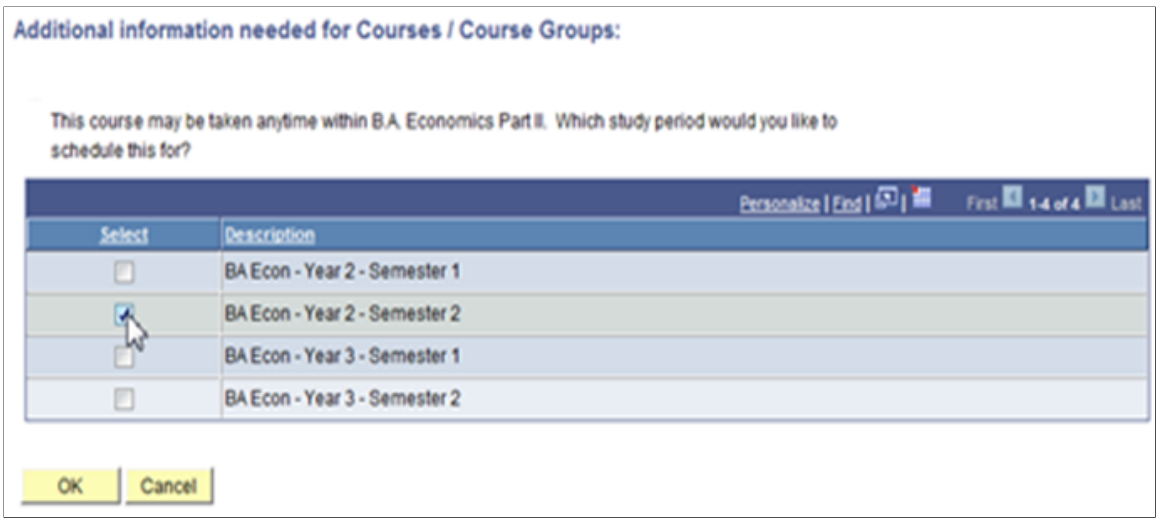


- Child items equating to term are retrieved

  The choices can be presented with user defined (message catalog text)

  Image: APT example: add course step 2

  This example illustrates adding a course to APT (step 2).



- The item is saved to APT. The lineage (as defined in AIR) is preserved, in this example BA Econ = Year 2 – Semester 2.

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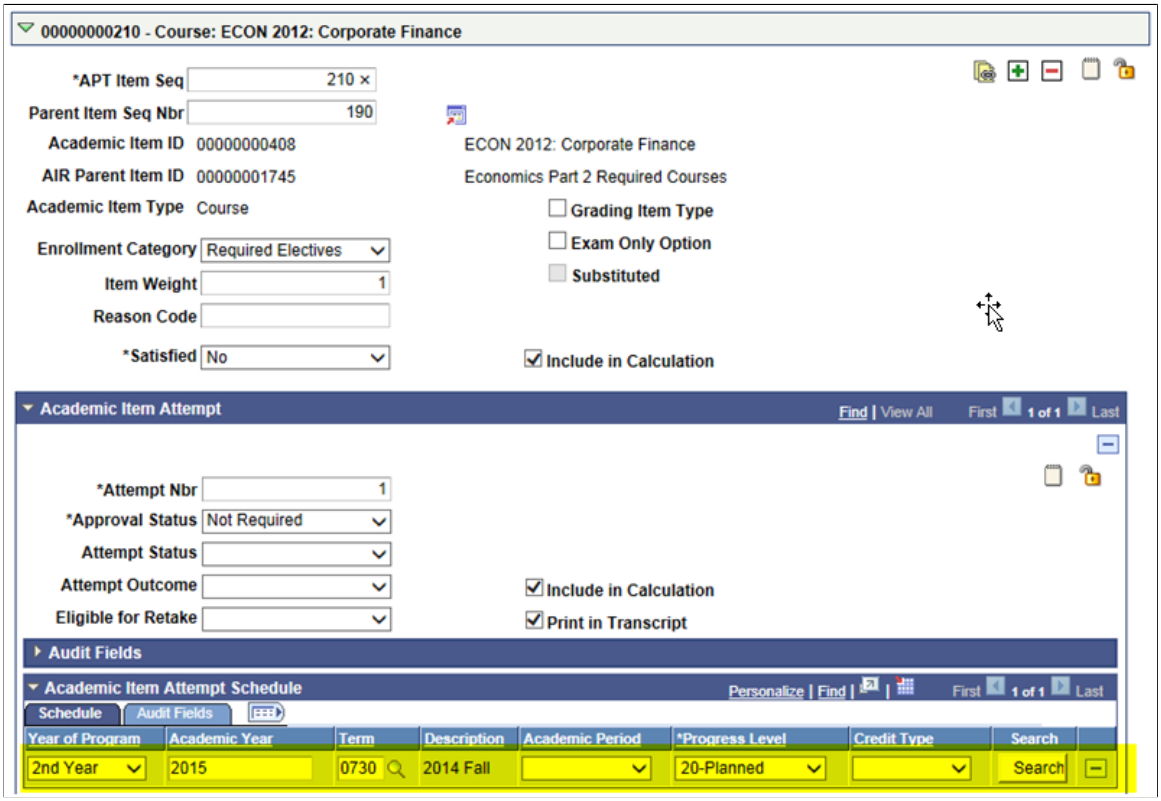
For Year of Program/Term reporting purposes however, the course selection is associated with 2nd Year, Term 0730.

Image: APT example: add course step 3

This example illustrates adding a course to APT (step 3).



Managing Retake Processing

The Eligible for Retake field determines whether an academic item can be repeated at a future point in a student's program of study.

If the Item is a Program Format tree planning node: the APT Request process can be used to build a new attempt for that planning node as well as any child program format tree nodes and other child items (such as courses) that are eligible for retake. If a student needs to re-take an entire program node, such as a year or semester, we recommend the following steps:

- Set the Eligible for Retake field to *Yes* on the Planning Node and any child Equates to Term/Session nodes (if applicable). Also identify all child items (courses, course lists etc.) that must be retaken.
- Create a Personalized Timeline and adjust the term mapping as required. For example, if a student attempted Year 1 in term 2014 Academic year (term code 2014) and is required to re-take Year 1 during the next academic year, the personalized timeline would need to be adjusted such that Year 1 is now mapped to the term code for 2015 Academic Year, with any subsequent years adjusted accordingly.

  See Using the APT Timeline

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- Use the APT Request process to create a new attempt against the Year 1 planning node. This creates new attempts for all eligible academic items and assigns those items to the appropriate term/session.

  See Creating and Managing APT Instances Using the APT Request Process

A course retake can be handled in one of two ways, depending on whether or not the retake needs to occur at a specific point in the remainder of the student's program of study:

- Retake at a specific point: if a student needs to retake the item at a set point in time, for instance retaking Year 1 course during Year 2:
  - Set the Eligible for Retake field to *Yes* on the original attempt.
  - Use the Create New Attempt button to create a new attempt against the course in APT.
  - Enter Academic Item Attempt schedule data for the new attempt.
  - Create and activate the next planning node (Year 2 , to use the same example) using APT Request.

  In student self-service, this makes the course available as an item to be retaken in the specified term/session node on the My Education Plan component *once the term/session node for the original attempt has been finalized.*

- Student is allowed to retake at any point during the remainder of the program:
  - Set the Eligible for Retake field to *Yes* on the original attempt.
  - Create and activate the next planning node (Year 2 , to use the same example) using APT Request.

  This option allows the student to select the course on the My Education Plan in any subsequent (active) term node once the term/session node for the original attempt has been finalized. When the course is selected, a new attempt is created for the course, with the schedule data for the term node where it was selected. If the student decides not to take the course at that point, the attempt and associated schedule data are removed from APT when the course is de-selected and the My Education Plan component is saved.

Recording Term-Related Data in APT When Students Are Not Assigned to an Enrollment Cohort or Personalized Timeline

The ability to auto-assign term-related data as items are added to APT without referencing a predefined cohort or personalized timeline is planned for the future.

APT Items Page: Academic Item Attempt Results Level

The APT structure is not delivered with a predefined set of fields for statistics and results (total units, grade points and so on). You must define the types of statistics and results that you want to track for your students, using the Result Type component. The number and type of results associated with a particular academic item (for example, a course, semester) are determined by the academic item definition (in AIR), where you indicate which results will be tracked for a particular academic item.

See Setting Up Result Types

This level of the structure allows you to track multiple versions of the same result type. For example, a Year of Program might have a Result Type of *Weighted Average Mark* associated with it. An institution might need to record the *calculated* version of this result (that is, the result calculated by a rules engine or uploaded from an external source) and the finalized version (which could be different from the calculated

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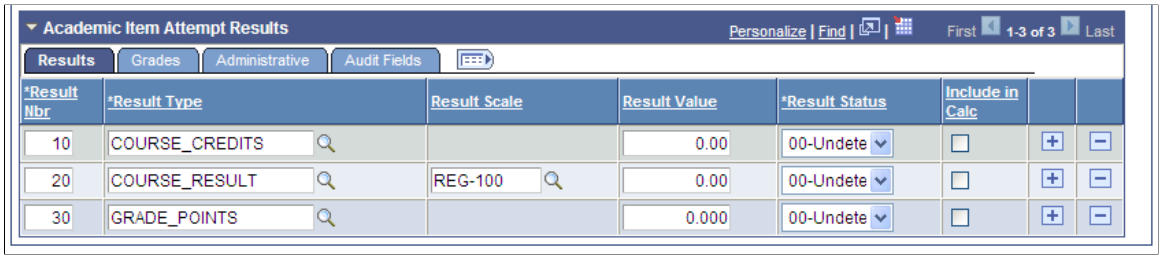
version) delivered from an exam or other review board. In this case, the Results grid would have two rows for the result type *Weighted Average Mark.* Obviously only one of the results would be used for calculating higher level results and for transcript purposes, but both results would be recorded.

Note. The APT Result design is still being finalized and some components of this feature are planned for a future phase.

Select the Results tab:

Image: APT Items page: Results tab

This example illustrates the fields and controls on the APT Items page: Results tab. You can find definitions for the fields and controls later on this page.



An academic item attempt can have multiple result types associated with it.

Result Nbr System assigned sequence number.

Result Type Prompts against Result Type table for the Institution.

Result Scale You assign a Result Scale to a Result Type on the Result Type page (Set Up SACR, Product Related, Student Records, Program Enrollment, Result Type). Result Type inherits the field definition (Numeric) from the Result Scale – for example, a 10. 0 point scale.

Result Value This value is based on the Result Type setup.

Result Status Indicates the status of the result. You can use this field to record a change to an existing Result Type row, or to indicate the status of a new instance of the same result type.

Include in Calc Indicates that a Result Type row should be used in calculating a higher level result. When there is more than one instance of the same result type, only one has the check box selected. Note: This feature is planned for the future.

See Setting Up Result Types

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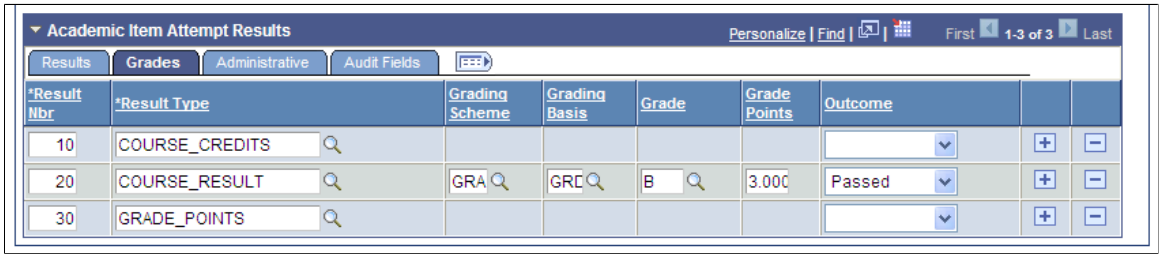
Select the Grades tab:

Image: APT Items page: Grades tab

This example illustrates the fields and controls on the APT Items page: Grades tab. You can find definitions for the fields and controls later on this page.



Grading Scheme Controls the Grade prompt. Available if the Result Type has a Result Scale which is configured to allow include grade.

Grading Basis Controls the Grade prompt. Available if Result Type has a Result Scale configured to allow include Grade. The field prompts against the Grading Basis for the selected Grading Scheme.

Grade Allows for the recording of a core grade for the result type. Available if Result Type has a Result Scale configured to allow include grade. The field prompts against the Grade table for the selected Grading Scheme/Basis.

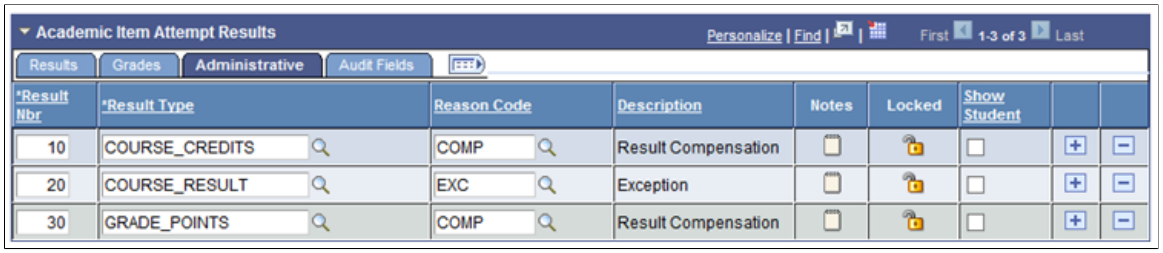
Grade Points Displays the grade point value (from the GRADE_TBL) for the grade.

Outcome The Result outcome will be set based on the evaluation of a rule (that is, the rule calculates the result, updates the result row with the result and outcome). The conditional value would be used to record a result that needs to be confirmed by an exam board or other body. The result could be ‘confirmed’ by the creation of another row with a Passed or Failed outcome.

Select the Administrative tab:

Image: APT Items page: Administrative tab

This example illustrates the fields and controls on the APT Items page: Administrative tab. You can find definitions for the fields and controls later on this page.



Bundle 34: Reason Code prompt is added

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Reason Code You can enter a reason code for a result row. For example, a student may be granted a higher result and compensation due to ill-health or other mitigating circumstances or a result may be excluded due to plagiarism.

See Setting Up APT Reason Codes

Show Student This is planned for the future.

APT Items Page: Assigning Result Types to APT Academic Items

Result Types are associated with academic items in AIR using the Result Types grid to indicate which Result Types are attached to a particular academic item.

See Defining Academic Item Details

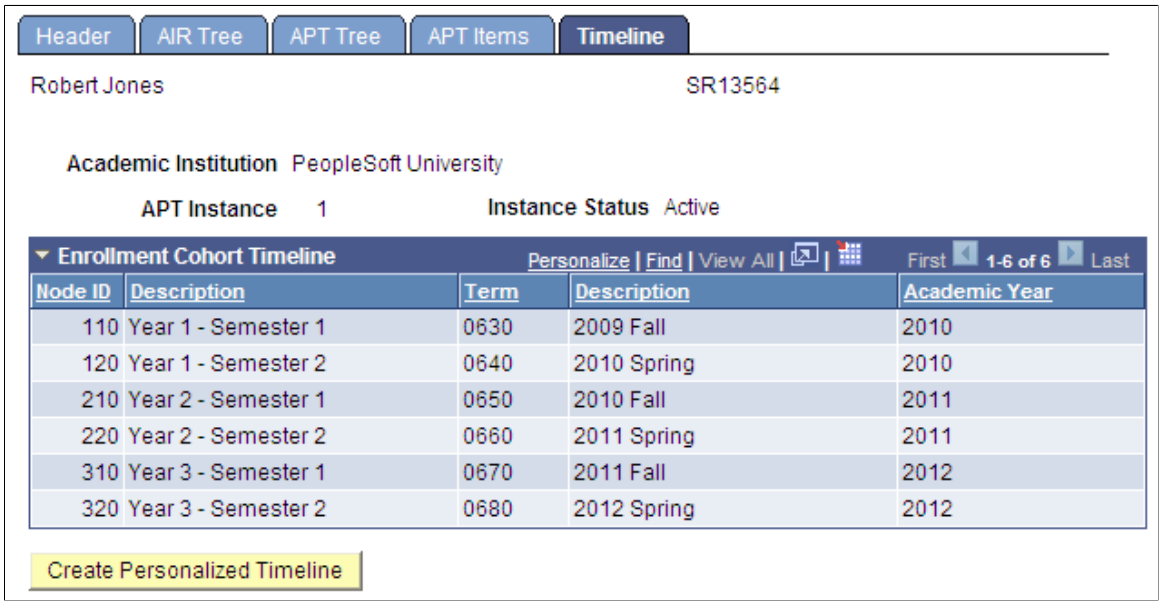
When an item is added to an APT instance, Academic Item Attempt Result rows are created for all result types linked to that academic item in AIR.

Using the APT Timeline

Access the Timeline page (Records and Enrollment, Program Enrollment, Academic Progress Tracker, Timeline.).

Image: Timeline page

This example illustrates the fields and controls on the Timeline page. You can find definitions for the fields and controls later on this page.



View a student's enrollment cohort data and override that data if necessary.

Create Personalized Timeline If you click this button, the enrollment cohort is copied down to the APT level and you can change term/session data. After it is

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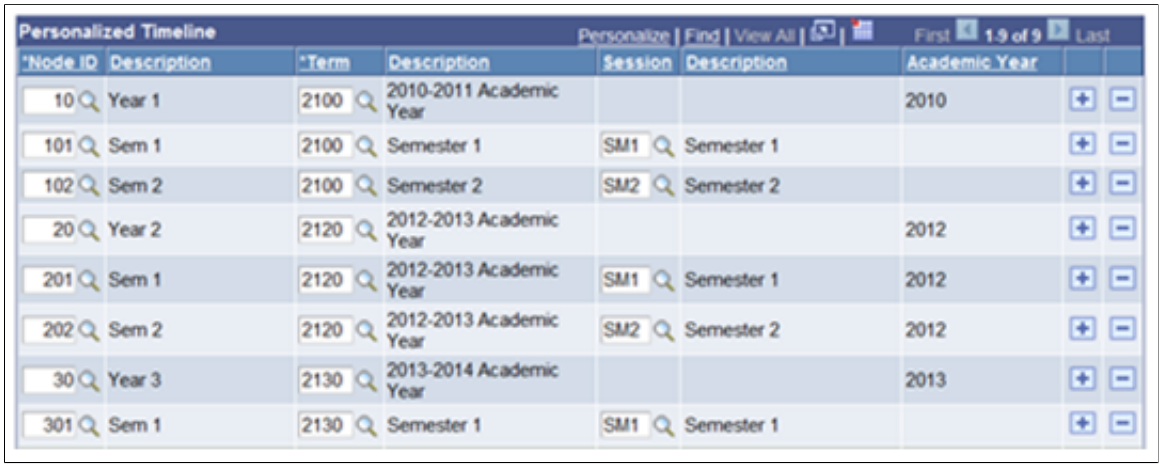
created, the personalized timeline is used to assign YOP, Term and Session in APT.

Image: Timeline page: personalized timeline example

Here is an example of a personalized timeline:



Personalized Timeline — Personalize | Find | View All | First 1-9 of 9 Last

*Node ID	Description	*Term	Description	Session	Description	Academic Year
10	Year 1	2100	2010-2011 Academic Year			2010
101	Sem 1	2100	Semester 1	SM1	Semester 1	
102	Sem 2	2100	Semester 2	SM2	Semester 2	
20	Year 2	2120	2012-2013 Academic Year			2012
201	Sem 1	2120	2012-2013 Academic Year	SM1	Semester 1	2012
202	Sem 2	2120	2012-2013 Academic Year	SM2	Semester 2	2012
30	Year 3	2130	2013-2014 Academic Year			2013
301	Sem 1	2130	Semester 1	SM1	Semester 1	

Using Item Attributes to Extend APT Instance Header Data Elements

The Common Attribute Framework allows you to extend the delivered APT_HDR data structure without customizations, by enabling you to add different types of data elements to your APT instances.

See "Understanding Common Attribute Framework *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

The Common Attribute Framework allows you to associate attributes with a functional area by a Record Context. Common Attributes have been enabled for the Academic Progress Tracker at the Instance level, which has its own Common Attribute Framework Record Context and Attribute Record.

APT Header

- Record Context: SSR_APT_HDR
- Attribute Record: SSR_APT_HDR_ADD

Attributes associated with this Record Context/Attribute Record combination are attached to an APT Instance header record and can be assigned on the Header page of the Academic Program Tracker component.

Steps for Creating Common Attributes for APT

To create common attributes for APT:

1. Define the attribute using the Common Attribute component (Set Up SACR, Common Definitions, Common Attributes Setup, Common Attribute).

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2. Attach that attribute to the APT Header Record Context (SSR_APT_HDR) (Set Up SACR, Common Definitions, Common Attributes Setup, Record Context).

Note: If you implemented Program Enrollment before Bundle 29 / Additional Features April 2013, you must run the processes listed here after you apply Bundle 29.

---

3. Item Type Matrix Sync Entities

   Navigate to the Item Type Matrix component (Set Up SACR, Product Related, Student Records, Program Enrollment, Item Type Matrix) and run the SSR_PE_SYNC process. The sync process ensures that the newly added attribute(s) are recognized as valid properties of the designated APT Entities (or all APT Entities if specific entities were not specified):

   - Click the Sync Entities button. This initiates the SSR_PE_SYNC process.
   - Check the Process Monitor to ensure that the process completes successfully.

     This process can be scheduled using the process scheduler.

4. Entity Property Sync

   Navigate to the Entity Property Sync page (SACR, System Administration, Entity, Entity Property Sync) and:

   - Click the Sync All Entities button.
   - Check the Process Monitor to ensure that the process completes successfully.

5. Wipe Entity Cache

   Remain on the Entity Property Sync page and:

   - After the Sync All Entity Properties process has completed successfully, click the Wipe Entity Cache button.
   - Check the Process Monitor to ensure that the process completes successfully.

See Identifying Child Item Types and Syncing Entities

See Using Item Attributes to Extend APT Instance Header Data Elements

See "Understanding Common Attribute Framework *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*""Defining a Common Attribute *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*""Associating a Common Attribute to a Record *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

See "Understanding Entity Registry *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

See "Synchronizing Entity Properties *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

Using Item Attributes for the Academic Progress Tracker

As explained above:

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- The Attribute Type determines the type of data that you can enter in the Item Attributes grid in AIR.
- An Attribute can be required when associated with a particular record context (the Required check box is selected on the Record Context page in Common Attributes setup). If an attribute associated with the SSR_APT_HDR context is set to required, the attribute will be added automatically when a user creates a new APT instance and a value will be required to save the component (if a default has not been assigned in the attribute definition). Note that a user must provide a value even if they add a non-required attribute.
- Attributes can also be repeatable if this property is enabled in the Record Context definition (the Repeatable check box is selected on the Record Context page in Common Attributes setup).

See "Defining a Common Attribute *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

See "Associating a Common Attribute to a Record *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

However, despite these variations, you always use the same process to add attributes for an APT instance– select the Attribute and then enter or select a Value –for example, date, text, numeric value, or a code where the code is a member of the List of Values defined for the attribute, a Table value, or XLAT value.

An APT Instance Header:

- Can have multiple attributes.

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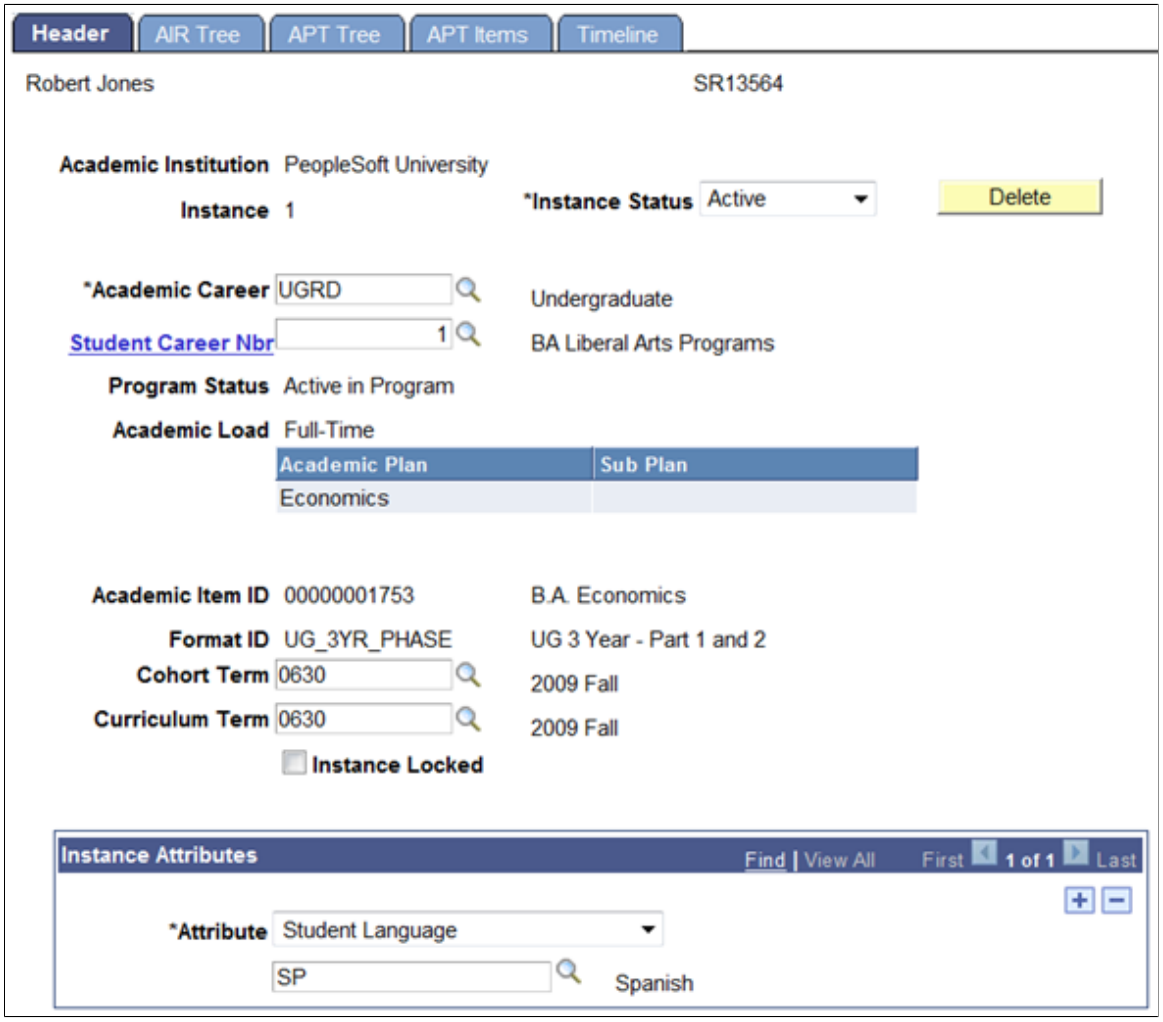
- Can have multiple rows for the same item attribute as long as the attribute is repeatable, and the Value is different (for example Attribute A, with Value 1, Attribute A with Value 2).

Image: Header page example: attributes

Attributes are assigned using the Instance Attributes scroll area:



Attribute The name of the attribute. This value comes from the description entered for the attribute on the Common Attribute component.

Value This field changes depending on the type of attribute. This could be a numeric, date, time or text field. Alternatively, the field could prompt against a list of values if one has been defined for the attribute.

See "Defining a Common Attribute *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

See "Associating a Common Attribute to a Record *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

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Managing APT Enrollment

Use the APT Enrollment component to enroll students based on APT course entries or to save classes in which students can enroll using Self Service.

This section provides an overview of APT enrollment processing and discusses how to process APT enrollment transactions.

Understanding APT Enrollment Processing

When a student is enrolled in a class using the APT enrollment process or through the self-service Schedule Builder feature, that enrollment data must be tied to an APT course item. This link is established as follows:

- Enrollment Request is submitted (from the self-service Schedule Builder or the APT Enrollment process).
  - An Enrollment Request is created and saved.
  - An APT Request (SSR_APT_REQUEST) is created and saved. One APT request row is created per APT Course, with an action of Enroll. So if the student is enrolling in three courses, three APT request rows are generated.
  - At this time, a cross reference between the Enrollment Request and the APT request is also created. A row is created in the SSR_APT_REQXREF table for each request, and the companion enrollment request ID is saved for each row. So if the student is enrolling in three courses, three APT cross reference rows are created. Each has a distinct APT request ID, but all three rows share the Enrollment Request ID. This cross reference table allows APT data to be referenced if an enrollment request needs to be resubmitted.
- COBOL engine is called and processes each detail row in the request.
  - Enrollment Engine updates the Enrollment Request (Success, Error, Message).
  - Rows are created in SSR_ENRL_BEVNT table if the SSR_ENROLLMENT_SYNC service operation is active.
- APT API is called.
  - API updates the APT Request Row.
  - If the enrollment was successful, a row is created in the SSR_APT_ENRL table.
  - If it is active, the SSR_ENROLLMENT_SYNC service operation is triggered.

Note: When a student drops a class through the self-service My Classes feature, the APT request process is initiated by the SSR_ENROLLMENT_SYNC service operation.

See the Student Enrollment Event document on My Oracle Support Doc ID 1400723.1.

See "Using Program Enrollment Self-Service Features *(PeopleSoft Campus Self Service 9.0 PeopleBook)*"

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Page Used to Process APT Enrollment Transactions

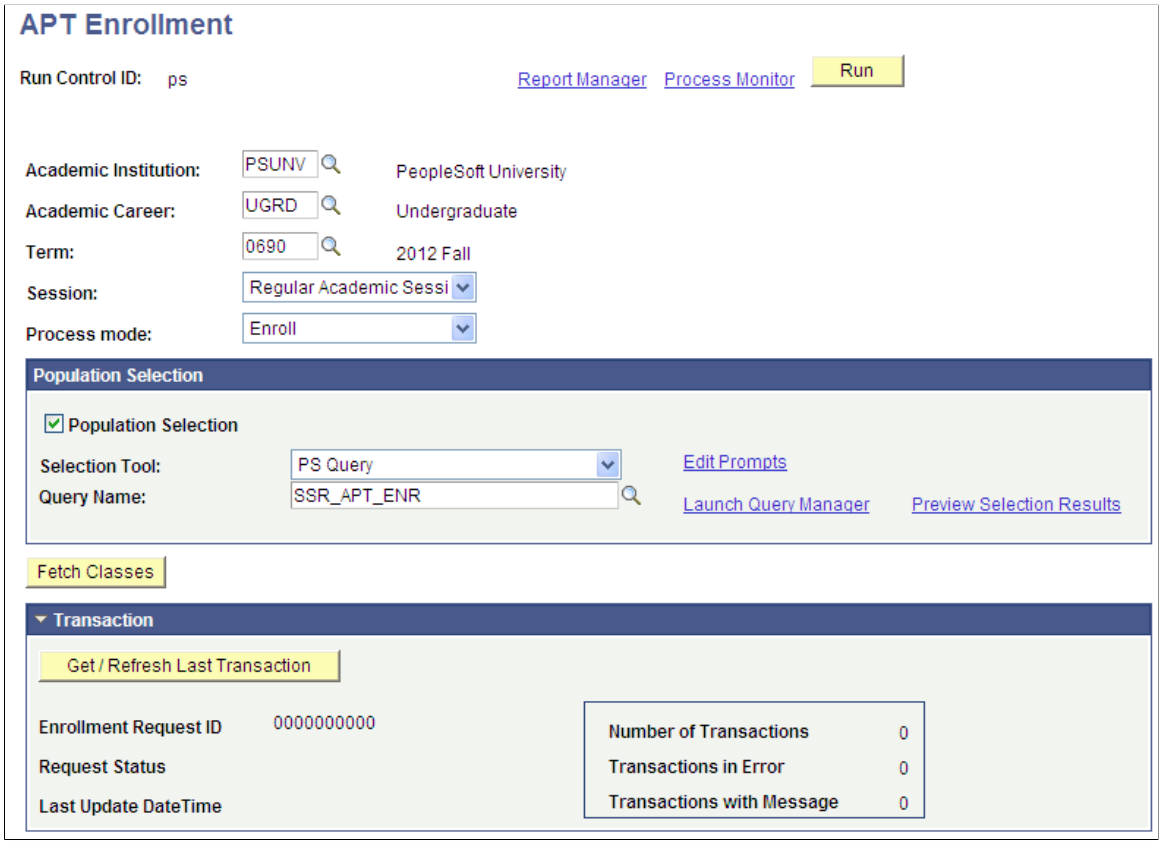
Page Name	*Definition Name*	*Navigation*	*Usage*
APT Enrollment	SSR_APT_ENR_RUNCNT	Records and Enrollment, Program Enrollment, APT Enrollment	Enroll students based on APT course entries.

Processing APT Enrollment Transactions

Access the APT Enrollment page (Records and Enrollment, Program Enrollment, APT Enrollment).

Image: APT Enrollment page

This example illustrates the fields and controls on the APT Enrollment page. You can find definitions for the fields and controls later on this page.



The following values determine the keys that are used to fetch rows from the CLASS_TBL for this run and also determine the values that are used as prompts when defining the student population. If the run control values are Institution: *PSUNV,* Term: *0690,* then the Population Selection query (or a manually entered list of students) must use the same values to select rows from APT (SSR_APT_SCHD).

Academic Institution Select an Institution value.

Academic Career Select an Academic Career value.

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This value is required for prompting against the TERM_TBL (which is keyed by INSTITUTION, ACAD_CAREER and STRM).

Term and **Session**

Select a Term and Session value. These values, along with the Institution value are used to fetch rows from the CLASS_TBL.

APT Enrollment can be used to create (and process) enrollment requests or to save classes so that they are accessible for the student to enroll in, using Self Service.

Process Mode

Enroll: Select this mode to create an Enrollment Request (one request per run) which can be processed directly from this component, or retrieved, adjusted if necessary and posted using the Block Enroll component.

Schedule Builder: If you select this mode, classes are saved directly to the SSR_REGFORM table where the student can retrieve them using the self-service Schedule Builder component to complete the enrollment process.

Population Selection

The Population Selection group box is a standard group box that appears on run control pages when the Population Selection process is available or required for the transaction. Selection tools are available based on the selection tools that your institution selected in the setup of the Population Selection process for the application process and on your user security. Fields in the group box appear based on the selection tool that you select. The fields behave the same way from within the group box on all run control pages and application processes. If your institution uses a specific delivered selection tool to identify IDs for a specific transaction, you must use it.

See "Using the Population Selection Process *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

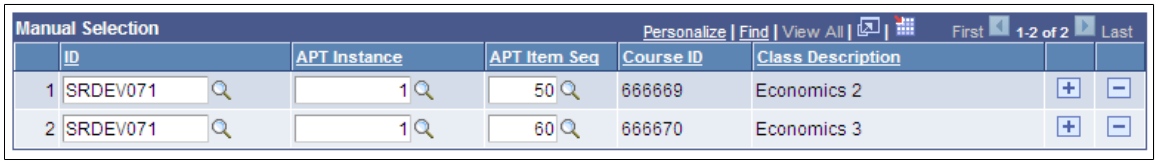
This query is delivered as a sample: SSR_APT_ENR. It is intended as an example and is therefore based on very broad criteria. When you create queries for use with APT Enrollment, you must use the bind record SSR_APT_ENR_TGT.

Manual Selection

When the Population Selection check box is cleared, the Manual Selection grid is available for entry:

Image: APT Enrollment – Manual Selection grid

This example illustrates the fields and controls on the APT Enrollment page – Manual Selection grid. You can find definitions for the fields and controls later on this page.



APT Instance

Prompts against a view of the SSR_APT_HDR table for the selected student.

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APT Item Seq(sequence)

Prompts against a view of APT Items and returns all items with an item type of COURSE:

- Where the Term value in the APT Item Attempt Table (SSR _APT_SCHD.STRM) is equal to the Run Control Term value.
- If the student's Attempt Schedule contains a session value (that is, the enrollment cohort also records session values) a match is also made on the SSR_APT_SCHD.SESSION_ CODE value and the Run Control session value.

See Creating and Managing APT Instances Using the Academic Progress Tracker Component

Course ID and **Class Description**

The Course ID and Class Description (Subject Catalog Nbr) for the COURSE item are displayed when you use the Fetch Classes button (see the following documentation for Fetch Classes).

Fetching Classes and Using the Class Sections Grid

Use the Fetch Classes button to preview the class sections that will be used to create enrollment requests or to populate a student's schedule builder. You can run the APT Enrollment process without fetching classes.

Fetch Classes

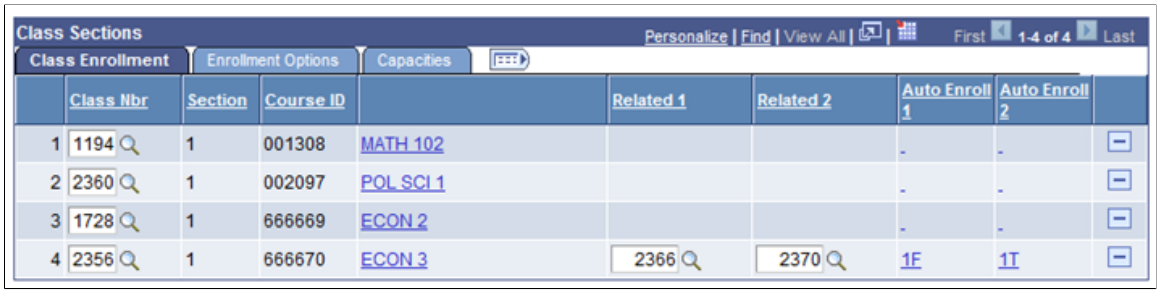
The Fetch Classes process fetches rows from the CLASS_TBL using:

- Run Control INSTITUTION, STRM, SESSION_CODE and
- Population Select Result/Manual Selection: Distinct CRSE_ ID/CRSE_OFFER_NBR combination(s)
- for which CLASS_TYPE is E (enrollment section).

The fetched rows are displayed in the Class Sections grid. When Manual Selection is used, the Fetch Classes button also populates the Course ID and Subject Catalog Nbr for the selected APT Item (Course) in the Manual Selection grid.

Image: APT Enrollment Class Sections grid

Here is an example of the Class Sections grid:



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Results are ordered by CLASS_SECTION. The process returns the lowest CLASS_SECTION value when multiple sections of a class exist. The process also evaluates the CLASS_COMPONENT parts of the selected section for required related components and returns any related sections (related 1 and 2). Here again the lowest section number is used for each related component.

Class Enrollment tab:

Class Nbr Displays the CLASS_NBR value for the lowest CLASS_SECTION value with a CLASS_TYPE of *E*. You can select a different value if other sections are available.

Class Description Click the Class Description link (SUBJECT and CATALOG _NBR) to access the Class Detail page and view enrollment capacity and totals.

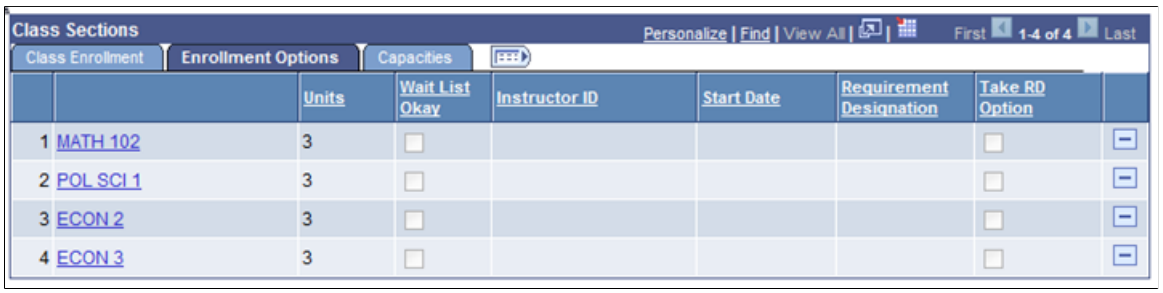
Related 1 and **Related 2** Displays the CLASS_NBR value for the lowest CLASS_SECTION value for related components (a maximum of two, neither of which is auto-enroll). You can select different values if they are available.

Auto Enroll 1 and **Auto Enroll 2** Click the links to access the Class Detail page and view enrollment capacity and totals.

Enrollment Options tab:

Image: APT Enrollment Class Sections grid – Enrollment Options tab

This example illustrates the fields and controls on the APT Enrollment Class Sections grid – Enrollment Options tab.



Units Displays the unit value for the class. The value is editable for variable unit/credit classes.

Wait List OK When this check box is selected, the enrollment engine attempts to wait list students in this class if the class is closed at the time when enrollment is processed. When the class(es) are processed by the enrollment engine, the User ID that creates the Run Control is checked for access to the Wait List OK function. If the User ID does not have this access, the wait list option is ignored and a closed class error is returned.

Instructor ID You can edit this field if the class allows a choice of instructor.

Start Date You can edit this field if the class is scheduled in the OEE session.

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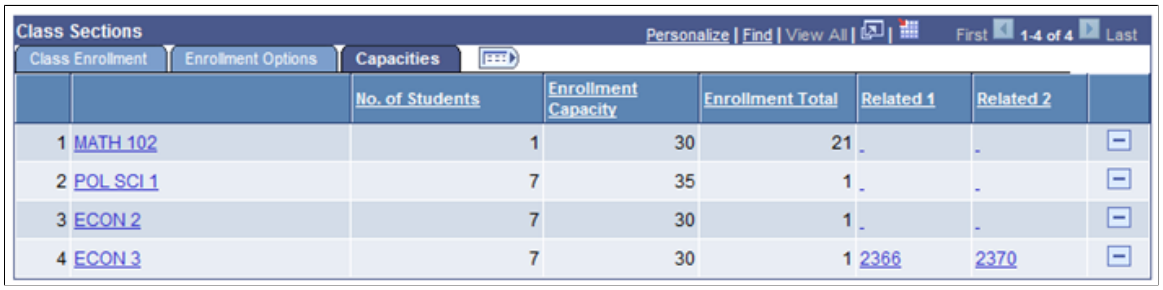
Take RD Option You can edit this field if the Requirement Designation is optional.

Capacities tab:

Image: APT Enrollment Class Sections grid – Capacities tab

This example illustrates the fields and controls on the APT Enrollment Class Sections grid – Capacities tab.



No. of Students Displays the total number of students in the selected population that need to be enrolled in the section of this course.

Enrollment Capacity Displays the enrollment capacity of the selected enrollment section.

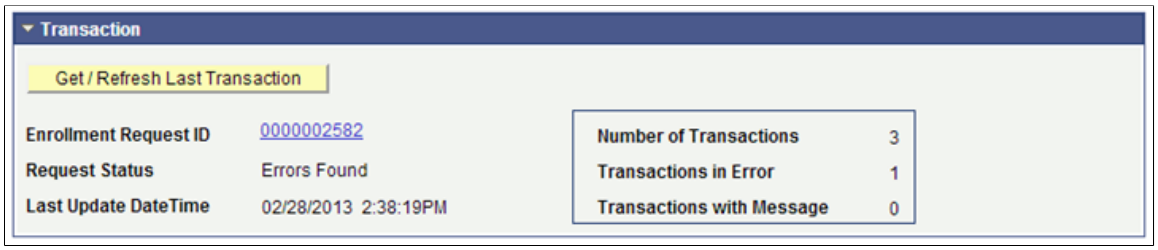
Enrollment Total Displays the current enrollment total for the selected enrollment section.

Viewing Transaction Data

View APT Enrollment transaction data in the Transaction group box:

Image: APT Enrollment Transaction group box

This example illustrates the fields and controls on the APT Enrollment Transaction group box. You can find definitions for the fields and controls later on this page.



Get / Refresh Last Transaction Click to retrieve the last enrollment request generated for this Run Control/User ID (can be used when the same Run Control is used for multiple runs).

Enrollment Request ID Displays the last enrollment request generated for this Run Control/User ID. An enrollment request is generated only when the Process Mode is *Enroll*.

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Request Status Displays the status of the Enrollment Request (ENRL_REQ_HEADER.ENRL_REQ_PROC_ST).

Last Update Date Time Displays the time stamp value for the enrollment request (ENRL_REQ_HEADER.DTTM_STAMP_SEC).

Number of Transactions Displays the number of Enrollment Request detail rows (the number of Student/Class number combinations within the request).

Transactions in Error Displays the number of Enrollment Request detail rows that resulted in error (ENRL_REQ_DETAIL.ENRL_REQ_DETL_STAT = E).

Transactions with Message Displays the number of Enrollment Request detail rows that were processed successfully but for which an informational message was returned (ENRL_REQ_DETAIL.ENRL_REQ_DETL_STAT = M): for example, a student was added to a wait list or a student was enrolled in a class but the repeat check process returned a repeat warning.

Running the APT Enrollment Process

The Population Selection (or Manual Entry) populates a result table (SSR_APT_ENR_TGT) with the following values returned from the APT Item Attempt table for items where the item type is COURSE and where the APT Item Schedule (SSR_APT_SCHD) term (and session if the enrollment cohort uses session level) match the run control term value:

Image: APT Enrollment Result Table example

This example illustrates the fields and controls on the APT Enrollment Result Table. You can find definitions for the fields and controls later on this page.

	ID	Institution	Instance	Seq Nbr	Course ID	Offer Nbr
1	AA0002	PSUNV	1	50	666669	1
2	AA0002	PSUNV	1	60	666670	1
3	AA0002	PSUNV	1	70	007181	1
4	AA0002	PSUNV	1	80	002097	1
5	AA0002	PSUNV	1	90	666917	1
6	SR13435	PSUNV	1	60	666669	1
7	SR13435	PSUNV	1	70	666670	1
8	SR13435	PSUNV	1	80	007181	1

Institution and **Instance** Displays the Institution and Instance values for the selected instance.

Seq Nbr Displays the SSR_APT_ATT.SSR_APT_ITEM_SEQ value.

Offer Nbr Displays the Course Offering value if it exists (not required).

The process also fetches class section rows for each distinct CRSE_ID/CRSE_OFFER_NBR combination (these values are written to the table: SSR_APT_ENR_CLS). If a CRSE_OFFER_NBR value does not exist, the process fetches the first class section for the CRSE_ID, regardless of offering. If the Fetch Classes button has been used, this step is skipped because the sections have already been saved to the SSR_APT_ENR_CLS table.

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When the Process mode is *Enroll:*

- Data from the student and class results tables is merged and a single enrollment request is created containing a detail row for each EMPLID/CLASS_NBR combination in the result set.
- The process calls the Enrollment Engine and the enrollment request is processed.
- When Enrollment processing is completed, the enrollment request ID is returned to the calling SSR_APT_ENR process and the ID is displayed on the Run Control component.

When the Process mode is *Schedule Builder:*

- Data from the student and class results tables are merged in the same way, however the resulting merged rows are inserted into the SSR_REGFORM table.
- Any existing rows with the same keys are overwritten.

See the Student Enrollment Event document on My Oracle Support Doc ID 1400723.1.

See "Using Program Enrollment Self-Service Features *(PeopleSoft Campus Self Service 9.0 PeopleBook)*"

Deleting Planning Nodes

The Delete Planning Node process allows you to delete planning node(s) that may have been created in error. Alternatively, planning nodes might need to be deleted if program requirements were changed after APT instances had been built or updated for a group of students. Whatever the reason, the APT Delete process is intended for use on an *exceptional* basis and it is expected that a very limited group of users would have access to run the process. As a safeguard against accidental deletes, the process never deletes a planning node if there has been any activity or update performed on it.

The process does not delete (that is, the selected student/planning node is skipped) if any of the following conditions are true:

- The APT Attempt Status of the Planning Node is a status other than *activated* or *null.*
- The Satisfied check box is selected for an APT Item (for the planning node or child items).
- The APT Item outcome is not null.
- Results exist for the Planning node or one of its child items.
- The APT Item Attempt (for the planning node) approval value is anything other than *Not Required.*
- The Planning Node item/attempt or one of its child items/attempt is locked.
- Child Course Academic Item(s) have a progress level other than *planned.*
- No Enrollment or Transfer Credit data exists for the planning node.
- No Items within the planning node are substitutes/replacements for other items in the instance.

This section discusses how to run the Delete Planning Nodes process.

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Page Used to Delete Planning Nodes

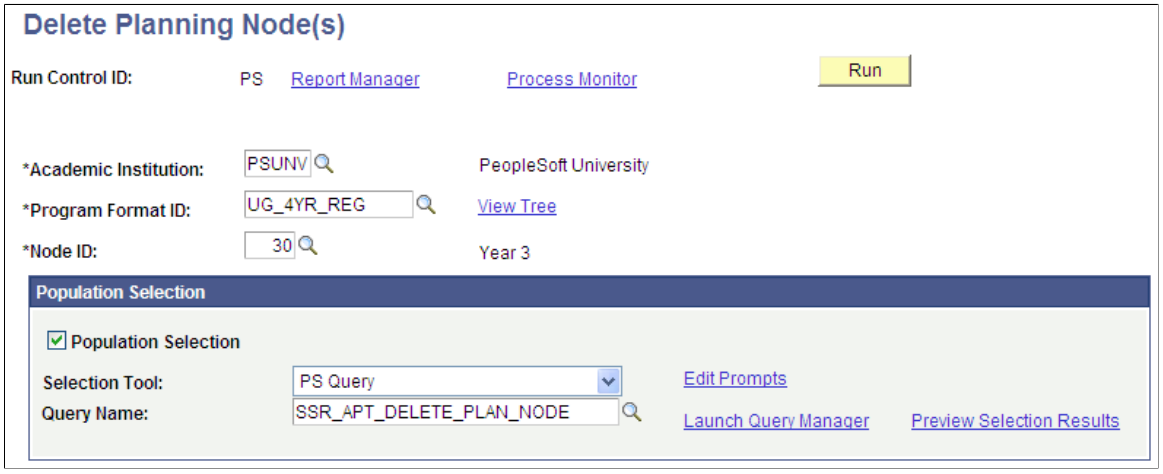
Page Name	*Definition Name*	*Navigation*	*Usage*
Delete Planning Node(s)	SSR_APT_DEL_RUNCNT	Records and Enrollment, Program Enrollment, Delete Planning Nodes	Delete planning nodes.

Running the Delete Planning Nodes Process

Access the Delete Planning Node(s) page (Records and Enrollment, Program Enrollment, Delete Planning Nodes).

Image: Delete Planning Node(s) page

This example illustrates the fields and controls on the Delete Planning Node(s) page. You can find definitions for the fields and controls later on this page.



Program Format ID Prompts against the Program Format Table for the selected institution. Use the View Tree link to view the Program Format definition. The value selected here serves as a high level control for the run control. Only students (whether identified by population selection or entered manually) in programs with a matching program format ID are processed.

Node ID Select a planning node from the list. The prompt lists all planning nodes for the selected Program Format ID.

Population Selection

The Population Selection group box is a standard group box that appears on run control pages when the Population Selection process is available or required for the transaction. Selection tools are available based on the selection tools that your institution selected in the setup of the Population Selection process for the application process and on your user security. Fields in the group box appear based on the selection tool that you select. The fields behave the same way from within the group box on all run control pages and application processes. If your institution uses a specific delivered selection tool to identify IDs for a specific transaction, you must use it.

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Selection Tool Select *External File* or *PS Query.*

Query Name The following queries are delivered as samples:

- SSR_APT_DELETE_PLANNING_NODE (prompts on Institution and Program Format ID).
- SSR_APT_DELETE_PLAN_NODE (prompts on Institution, Academic Career, Planning Node Item Type, Academic Item ID, Program Item ID, Cohort Term and Curriculum Term).

When you create you own queries, you must use the bind record SSR_APT_HDR.

See "Using the Population Selection Process *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

Manual Selection

The Manual Selection grid is available if you do not select the Population Selection check box. Use the grid to enter a list of students for processing:

Image: Delete Planning Nodes page Manual Selection grid

This example illustrates the fields and controls on the Delete Planning Nodes page Manual Selection grid. You can find definitions for the fields and controls later on this page.

ID Enter a student ID (EMPLID). The prompt includes only those students in programs with the program format ID equal to the Run Control value.

APT Instance Select an APT Instance for the student.

Managing the APT Administrative Roster

Bundle 34: New

Institutions need to be able to apply academic decisions in program curricula for selected students, such as replace a course that is no longer taught for a particular term or semester. Administrators can use the APT Administrative Roster component to add, remove and substitute academic items for selected students in batch. They can also use the component to enter results for selected students for any academic item within the Academic Item Registry (AIR) Program structure.

This topic discusses how to:

- Process APT Administrative Roster transactions.

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- Monitor APT Action processes.

Pages Used to Manage the APT Administrative Roster

Page Name	*Definition Name*	*Navigation*	*Usage*
APT Administrative Roster	SSR_APT_ADMN_REQ	Records and Enrollment, Program Enrollment, APT Administrative Roster	Add, remove and substitute academic items, and enter results.
Search Item ID in AIR Program	SSR_PROG_ITEM_PT	Select the prompt for an Item field on the APT Administrative Roster page.	Select the academic item for which the APT Action is to be performed.
Request History by Process	SSR_APT_REQ_HIST	Records and Enrollment, Program Enrollment, Request History by Process	View APT Action processes, outcomes and statuses.

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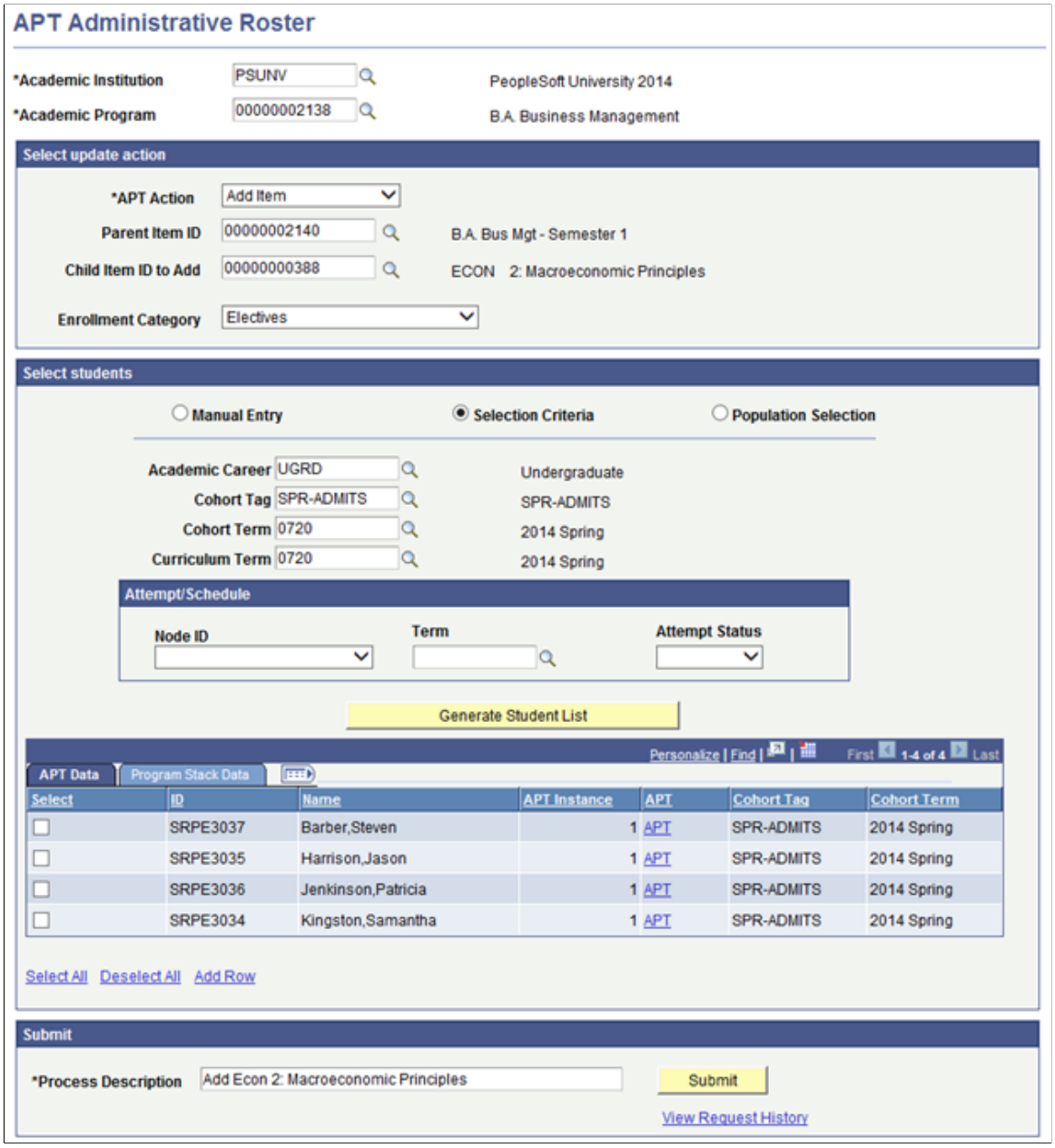
Processing APT Administrative Roster Transactions

Access the APT Administrative Roster page (Records and Enrollment, Program Enrollment, APT Administrative Roster).

Image: APT Administrative Roster page

This example illustrates the fields and controls on the APT Administrative Roster page. You can find definitions for the fields and controls later on this page.



Academic Program Select an academic program. The prompt lists all valid academic items with an academic item type of Program (SSR_AIR_HDR. SSR_ITEM_TYPE = ‘PRG’). This is a delivered academic item type value.

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Select update action: Add Item

APT Action

Add Item: Add a child academic item from outside the AIR program structure to a parent academic item within the AIR program selected for an individual or group of students in batch. In the APT Administrative Roster page example, ECON 2 does not exist in the B.A Business Management program. This course is being added from outside the AIR program, as a child to the parent B.A. Bus Mgt Semester 1.

The *Add Item* action also populates the Enrollment Category in the APT Tree (SSR_APT_TREE) if selected or available, and also indicates that this item addition was an administrative exception within the APT. See Using the APT Tree

Parent Item ID

This prompt opens the Search Item ID in AIR Program page which provides a view of the AIR program. Select the parent item to which the child item will be added.

Note: The academic items available for selection are controlled by APT Action Security. See Setting Up APT Action Security

---

Child Item ID to Add

If the current item is a program format tree node, the Child Item ID to Add prompt lists all academic items that have an academic type specified as a valid child item in the Academic Item Type Matrix.

See Identifying Child Item Types and Syncing Entities

The prompt excludes items that have an item type defined as a program format tree node. This ensures that any changes to the program structure conform to the program format for the item.

Enrollment Category

This field appears only if the Requires Enrollment Category check box has been selected for the academic item type that is being added. Select a value in the Enrollment Category field before submitting the process. See Defining Academic Item Type Attributes

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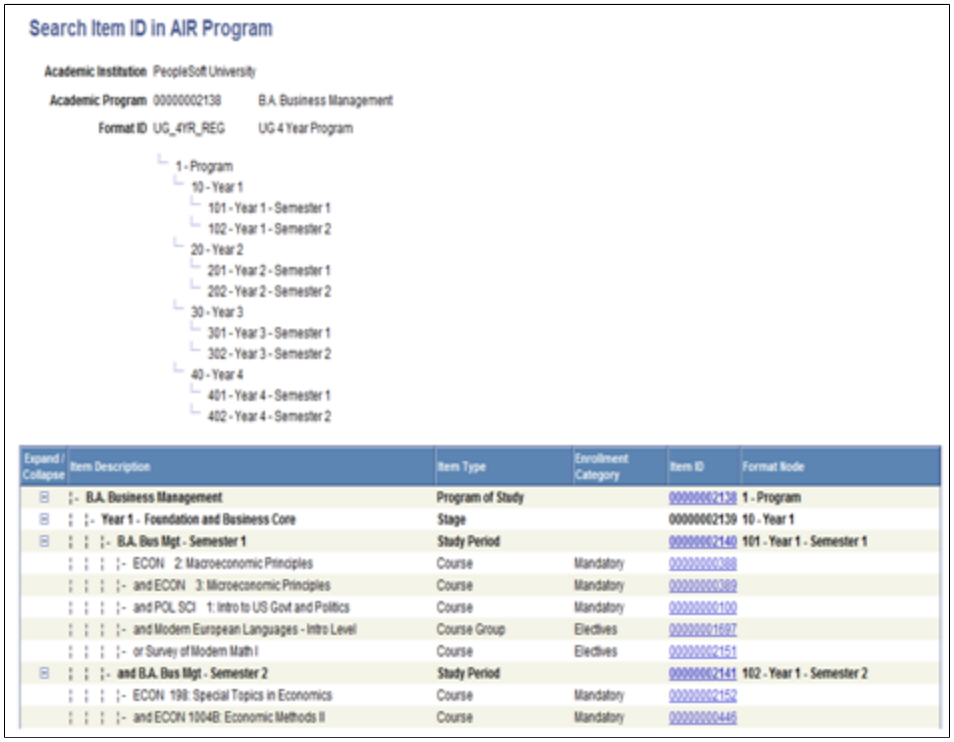
The documentation about the *Add Item* action and the following documentation about other update actions discusses the Search Item ID in AIR Program page.

Image: Search Item ID in AIR Program page

Here is an example of the Search Item ID in AIR Program page:



Note: The academic items available for selection are controlled by APT Action Security. See Setting Up APT Action Security

Select update action: Remove Item

APT Action

Remove Item: Examples of when you might use this action are: program requirements were changed after APT Instances had been built or updated for groups of students; to replace a course that is no longer taught in the semester or term. It is expected that a limited group of users, controlled by APT Action Security, will have access to remove items. See Setting Up APT Action Security

As a safeguard against accidental deletes, the process never deletes an academic item if there has been any activity or update performed on it.

Note: If you remove a Program academic item (PRG), all content on the student's APT Tree is removed. Therefore, such security access should be provided only in *exceptional* circumstances. The same is true for program format tree nodes.

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The process does not remove an academic item if certain conditions are true. The conditions are the same as those listed in the documentation about deleting planning nodes. See Deleting Planning Nodes

Item ID

This prompt opens the Search Item ID in AIR Program page where you can select the academic item to be removed (controlled by APT Action Security).

Select update action: Create Substitution

APT Action

Create Substitution: The substitution process typically involves the swapping of one course for another. For example, academic decisions often allow students to substitute a course from the prescribed program curricula for another course that may be part of another program, structure or even a standalone course offered by the institution.

You can also substitute different types of academic items and replace an item of one type with a different type.

Note: You cannot create a substitution for the following items:
An item which is identified as a program format tree node;
An item which has been replaced with another APT item;
An item which has child items in APT (for example, a Course List item, from which child item courses have been placed into APT).

Item to Substitute

This prompt opens the Search Item ID in AIR Program page where you can select the academic item to be substituted (controlled by APT Action Security).

Substitute Item

The prompt lists all non-program format tree node academic items (with effective dated logic) that are *valid child items (according to item type matrix) of the parent item of the item* which is being substituted.

Select update action: Enter Results

APT Action

Enter Results: Enter results by result type and result scale (if one exists) for selected students. Results, Grades, Outcomes, Result Status, Reason Code, Include in Calc and Show Student can be updated for any academic item within the AIR Program selected on the roster page. You can also update a result already submitted. A new result row is created in APT when the process is submitted, to preserve the history of results recorded and for audit purposes. The Include in Calc check box is moved from the previous row to the latest row for the result type.

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Item ID

This prompt opens the Search Item ID in AIR Program page where you can select the academic item for which results should be entered (controlled by APT Action Security).

Result Type and **Result Scale**

The Result Type field prompts against Result Type table (SSR_RESULT_TYPE) for the institution.

You assign a Result Scale to a Result Type on the Result Type page (Set Up SACR, Product Related, Student Records, Grading, Result Type). See Setting Up Result Types

The question mark icon next to the Result Scale field opens a secondary page to view the selected result scale.

Select students: Manual Entry

Use this grid to select specific student IDs to process for an APT Action.

Select students: Selection Criteria

This option provides selection criteria based on the APT, to allow further filtering of students on an academic program.

Academic Career, Cohort Term and **Curriculum Term**

Prompts on the Academic Career table (ACAD_CAREER_TBL) and the Term Values Table (TERM_VALUES_TABLE) based on the selected institution.

Cohort Tag

Prompts on the Academic Cohort Table (SSR_COHORT_TBL) based on the selected institution. Use this field to identify students who commenced their program at a particular point in the academic year.

Node ID

Displays the planning nodes of the selected AIR program and is used to filter against the students' APT Academic Item Attempt Schedule for the academic item selected.

Term and **Attempt Status**

These fields are used to filter against the students APT Academic Item Attempt Schedule for the selected academic item.

Select students: Population Selection

The Population Selection group box is a standard group box that appears on run control pages when the Population Selection process is available or required for the transaction. For the APT Administrative Roster page, only the Selection Tool *PS Query* is delivered, to ensure data consistency within the APT. Population Selection is also based on user security.

Query Name

The following queries are delivered as samples to be modified by the institution:

- SSR_APT_ADMIN_ROSTER_SAMPLE (prompts on Institution and Program ID)

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- SSR_APT_ADMIN_ROSTER_RSLT (prompts on Institution, Program ID, Item ID and Result Type)
- SSR_APT_ADMIN_ROSTER_RSLT_RSCA (prompts on Institution, Program ID, Item ID, Result Type and Result Scale)

When you create result based queries, the bind record SSR_APT_ITMRSLT should be used. All other APT Action queries should include the bind record SSR_APT_HDR.

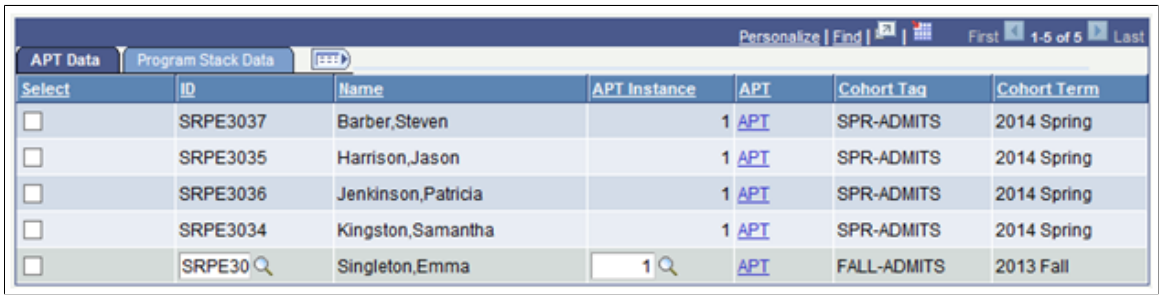
See "Using the Population Selection Process *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

Generate Student List

Click the Generate Student List button after you select criteria using Selection Criteria or Population Selection. When the student data is retrieved, you can access (view or update) the APT Instance or Program Stack data for a student directly from the roster page.

Image: APT Administrative Roster page: Generate Student List grid

Here is an example of the APT Administrative Roster page, Generate Student List grid:

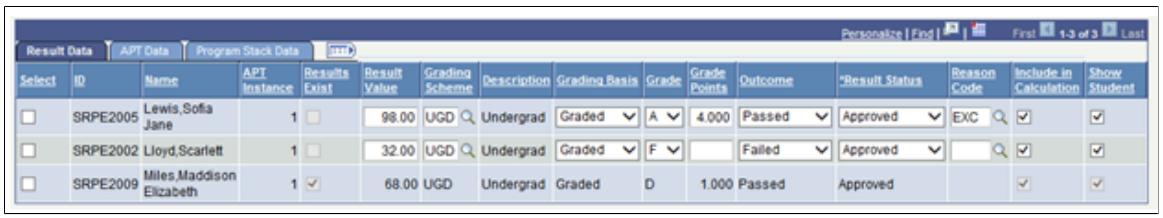


To process students for an APT Action, select individual students or Select All. Click Add Row to add a student to the list.

The generated student list grid example above is the same for all APT Actions except *Enter Results.*

Image: APT Administrative Roster page: Generate Student List grid_Result Data

Here is an example of the Generate Student List grid for the Enter Results action:



The Enter Results APT Action displays a results roster grid when the Generate Student List is selected for the specific academic item. The results entry process observes the same functionality of entering results for individual students on the APT component; grades default from the mark entered using the results scale mapping. The minimum and maximum mark from the result scale is also observed along with decimal places. When retrieving groups of students for result entry for an academic item, the roster page identifies whether a result already exists for a student. If a result exists, the Result Exists check box

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is selected and the row is display only mode. To update a result, select the student ID; the Result field is then available for edit. When a result is updated, a new result row for the result type is created in APT (see the previous documentation about APT Action *Enter Results* for more information).

Note: If a result exists for Manual Entry, the row is immediately available for edit and update.

Result Value	This value is based on the Result Type setup and is validated against the Result Scale.
Grading Scheme	Controls the Grade prompt and is available if the Result Type has a Result Scale which is configured to allow include grade. The value defaults into the roster page.
Grading Basis	Controls the Grade prompt. Available if the Result Type has a Result Scale which is configured to allow include grade. The field prompts against the Grading Basis for the selected Grading Scheme. The value defaults into the roster page.
Grade	Allows for the recording of a core grade for the Result Type and is available if the Result Type has a Result Scale configured to allow include grade. The field prompts against the Grade table for the selected Grading Scheme/basis. Defaults from the entry of a Result value based on the Result Scale if configured.
Grade Points	Displays the grade point value (from the GRADE_TBL) for the grade.
Attempt Outcome	Records the outcome of the result, for example, *Passed* or *Failed.* Prompts on Attempt Outcome translate values, and requires data entry (does not default).
Result Status	Records the current result status, for example, *Awaiting Approval* or *Approved.* Prompts on Results Status translate values, and requires data entry (does not default).
Reason Code	Prompts on the APT Reason Code table and requires data entry. Use this field to record reasons why specific results were awarded, for example, compensation, mitigation, health reasons.
Include in Calculation	Select the check box if this result is to be included in calculating a higher level result.
Show Student	Select the check box if this result is to be shown to students in self service. This is planned for future but could be used as part of the XMLP Results feature when creating the results template query.

See Managing APT Items

See Setting Up Result Types

See Setting Up APT Reason Codes

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Submit

You can run the APT Action submit process as a background process. Alternatively, you can view the process after you submit it, using the View Request History link to access the Request History by Process page (see the next section for information about the page).

Use the Process Description field on the roster page to provide specific descriptions for each process that you submit, for example, *Add Course Econ 2: Macroeconomic Principles.* These descriptions are recorded in the process and can also be used when you search for specific processes in the Request History by Process component.

Monitoring APT Action Processes

Use the Request History by Process page to monitor the details and outcomes of all APT Action processes submitted on the APT Administrative Roster page. You can monitor the request as it is submitted (the process instance ID is passed to the Request History by Process component), or view later after running the process in the background. You can also use the page to search for previous process instances submitted. If errors are returned during the submit process, you can fix them in the student's APT or program stack directly from this page, and then resubmit the process.

Access the Request History by Process page (Records and Enrollment, Program Enrollment, Request History by Process).

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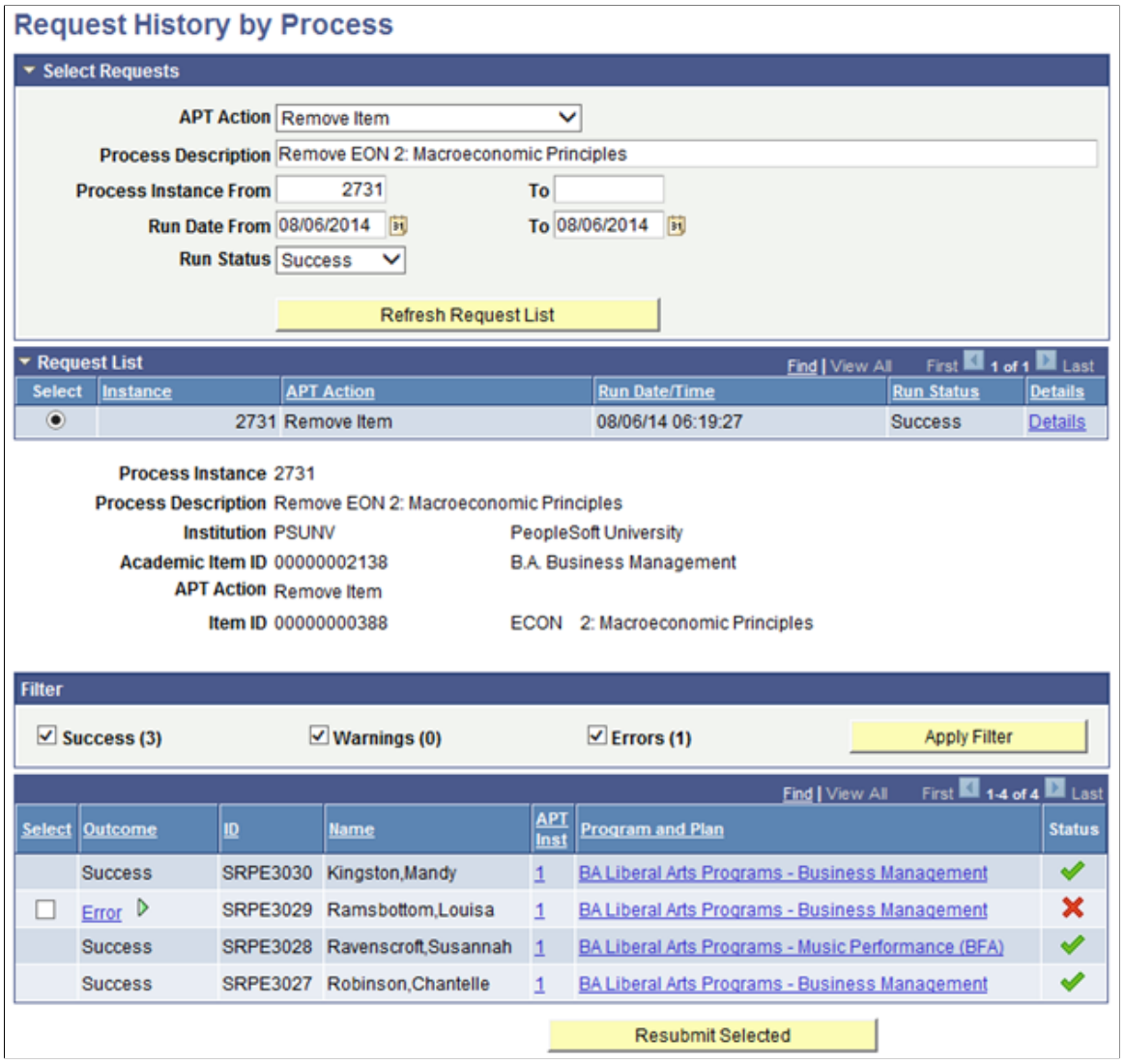
As discussed, you can also access the page from the APT Administrative Roster page using the View Request History link.

Image: Request History by Process page

This example illustrates the fields and controls on the Request History by Process page. You can find definitions for the fields and controls later on this page.



Filter

Use the Filter grid to filter results based on different outcome statuses. For example, you can display the students that have an error status to resolve the data for those students.

Select This check box appears only for those students who have an Error status. You can select their IDs for resubmission.

Outcome The Outcome status is display only unless the outcome is an error, when a link provides details about the error message.

Resubmit Selected You can resubmit the APT Action process for an individual or group of students. After the error has been resolved, select the

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student ID in the grid and click the Resubmit Selected button. You are returned to the APT Administrative Roster page where you can change the Process Description. Submit the process from the APT Administrative Roster page as previously, and then return to the Request by History process using the View Request History link to view the outcome of the process.

APT API Detail

The following section provides further detail on the operations and processing performed by SSR_APT:API. Please note that when called from the Application Maintenance component, the Admissions Activate Applications process and the Student Program Plan component, the API creates *only the APT Instance* (SSR_APT_HDR). All other actions are performed when the API is called from the APT Request SSR_APT_REQ application engine.

See "Understanding Entity Registry *(PeopleSoft Campus Community 9.0 Fundamentals PeopleBook)*"

SSR_APT:API

Class APTAPI

Summary

Property Summary:

Data Type	***Name and Description***
public APTHeader	APTHeader The APT Header APT Entity object that is populated when the getHeader() method is invoked.
public BasicEntity	CONTEXT_ROOT The APT Entity object which is set as the root context for all method processing in the API. This is usually set as the planning node or equates to term node APT item. This property is set by consumers of the API so that only items that fall under this root item are processed. If this property is blank, the APT Header is considered as the root item. This property is set when the setContextRoot() method is invoked.

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Data Type	***Name and Description***
public BasicEntity	CONTEXT_ROOT_AIR The AIR Entity object which is set as the root context for all method processing in the API. This is usually set as the planning node or equates to term node AIR item. This property is set by consumers of the API so that only items that fall under this root item are processed. If this property is blank, the PoS property is considered as the root item. This property is set when the setContextRoot() method is invoked.
public string	CRSE_FILTER This property determines if the APT structure should fill completed and in-progress courses. Set value 'Y' if the Course should ignore completed and in-progress courses.
public EnrollmentCohort	EnrollmentCohort The enrollment cohort object corresponding to the APT Header in context.
public boolean	FILL_COURSE_GROUP Set this property to true if the course group entities should be populated in the AIR structure.
public boolean	FILL_COURSE_OFFERING Set this property to false to turn off loading course offering details entity under AIR Course, default is true.
public boolean	FILL_NON_PFN_ITEMS Set this property to false if non planning node items should be excluded from the AIR structure.
public boolean	PERFORM_VALIDATE Set this property to false if validation logic should be ignored when save() method is invoked. By default validation logic is processed when save method is invoked.
public BaseAIREntity	PoS The Program of Study AIR Entity object corresponding to the APT Header object. This property is automatically instantiated along with the APTHeader APT Entity object when the getHeader() method is invoked.

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Data Type	Name and Description
public ProgramFormatSetup	Program Format The program format object corresponding to the APT Header in context.
public boolean	TERM_ACTIVATE Set this property to true to term activate into terms defined in the equates to term items on save.

Constructor Summary:

Return Data Type	Name and Description
public void	APTAPI()

Method Summary:

Return Data Type	Name and Description
public boolean	activateCurrentPlanningNode (MessageLogBase p_Messages out) Activates the current planning node and all its program format tree node child items by setting the APT Attempt status to 'Activated'. This method will perform this operation only if the attempt status of the current planning node is null.
public boolean	activateCurrentPlanningNodeInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Activates the current planning node and all its program format tree node child items by setting the APT Attempt status to 'Activated'. This method will perform this operation only if the attempt status of the current planning node is null.
public boolean	activateProgFormatNode(BaseAPTEntity p_APT_Entity, MessageLogBase p_Messages out) Activates the Program Format node entity object passed in as a parameter.

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Return Data Type	*Name and Description*
public boolean	addIAMEnrollentDataForItem(number p_SSR_APT_ITEM _SEQ, number p_ATTEMPT_NBR, string p_Term, string p_ SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Adds Individual Activity Management (IAM) enrollment information to a student's APT course item.
public boolean	addIAMEnrollentDataForItemInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT _ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ _NBR, MessageLogBase p_Messages out) Adds Individual Activity Management (IAM) enrollment information to a student's APT course item.
public BaseAPTEntity	addItem (string p_AIR_Item_ID, MessageLogBase p_ Messages out) Adds an AIR Item to a student's APT. This method takes care of automatically adding the parent items (if they do not exist) and adds child items based on the enrollment category of the item being added. This method requires that an APT header record already exists for the student and it should be populated in the APTAPI property APTHeader by invoking the getHeader method.
public BaseAPTEntity	addItemToAPTHeader(string p_Emplid, string p_Institution, number p_Instance, string p_AIR_Item_ID, MessageLogBase p_Messages out) Adds an AIR Item to a student's APT. This method takes care of automatically adding the parent items (if they do not exist) and adds child items based on the enrollment category of the item being added. This method requires that an APT header record already exists for the student.
public BaseAPTEntity	addItemUnderAPTItem (string p_Emplid, string p_Institution, number p_Instance, string p_Parent_Item_ID, string p_Child_ Item_ID, MessageLogBase p_Messages out) Adds an AIR Item as a child to a specific APT item. This method can be used to add an item that is not present in the AIR hierarchy.

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Return Data Type	*Name and Description*
public BaseAPTEntity	addItemUnderAPTItemV2(string p_Emplid, string p_Institution, number p_Instance, string p_Parent_Item_ID, number p_Parent_Item_seq, string p_Child_Item_ID, MessageLogBase p_Messages out) Adds an AIR Item as a child to a specific APT item. This method can be used to add an item that is not present in the AIR hierarchy.
public APTAttempt	createAPTAttemptForItem (BaseAPTEntity p_parent, BaseAIREntity p_parent_AIR_Entity, MessageLogBase p_Messages out) Adds a new APT Attempt row for an APT item. This method also creates the APT schedule and APT Result data for the newly created APT Attempt.
public boolean	createAPTHeader (string p_Emplid, string p_Acad_career, number p_Student_car_nbr, string p_Institution, MessageLogBase p_Messages out) Creates a new APT Header record. To save the newly created APT Header to the database invoke the save method. **Note:** The student program stack ACAD_PROG.SSR_APT_INSTANCE is not updated by this method.
public boolean	createAPTHeaderFromEntity (StudentProgram p_StudentProgram, MessageLogBase p_Messages out) Creates a new APT Header record. This method uses a pre-populated entity object SSR_CAREER_TERM:Accessors:StudentProgram. This method holds the core logic for creating the APT header and is invoked by all the other methods that create APT header. To save the newly created APT Header to the database invoke the save method. **Note:** The student program stack ACAD_PROG.SSR_APT_INSTANCE is not updated by this method.

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Return Data Type	*Name and Description*
public boolean	createAPTHeaderFromRecord (Record p_recACAD_PROG, MessageLogBase p_Messages out) Creates a new APT Header record. This method is meant to be used from online components by passing the ACAD_PROG component buffer record as the parameter. To save the newly created APT Header to the database invoke the save method. **Note:** The student program stack ACAD_PROG.SSR_APT_INSTANCE is not updated by this method.
public BaseAPTEntity	createAPTItem (BasicEntity p_parent, string p_SSR_ITEM_ID, BaseAIREntity p_AIR_Entity, boolean p_full_mode, MessageLogBase p_Messages out) Creates one APT item under a parent APT item. This also creates the APT attempt, schedule and result records. Child academic items are also created based on the mode parameter and the enrollment category associated with the item.
public void	createCounterRecord(string p_Emplid, string p_Institution, number p_Instance) This method should be called to set up the counter record SSR_APT_ITM_CNT. If a row already exists for the given emplid, institution and APT instance key values, it verifies if the counter value is correct and updates it to the right value if it is not. If a counter row does not exist for the given keys then it creates a new row with the correct counter value.
public boolean	deleteAPTHeader (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Deletes APT Header record. Delete is only allowed if there are no references in student program stack or admissions application stack.
public boolean	dropEnrolledItem (number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Deletes enrollment information from a student's APT course item.

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Return Data Type	*Name and Description*
public boolean	dropEnrolledItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Deletes enrollment information from a student's APT course item.
public boolean	enrollItem (number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Adds enrollment information to a student's APT course item.
public boolean	enrollItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Adds enrollment information to a student's APT course item.
public BaseAPTEntity	findAPTElementByItemSequence (BaseAPTEntity p_tree, number p_SSR_APT_ITEM_SEQ, array of string p_breadcrumbs out) Searches for and returns an entity object based on the APT item sequence number specified. It can be used only in APT trees.
public BasicEntity	findElementByItemID (BasicEntity p_tree, string p_SSR_ITEM_ID, array of string p_breadcrumbs out) Searches for and returns an entity object based on the item ID specified. It can be used for both AIR and APT trees.
public BaseAIREntity	getAIRItemByNodeID(number p_nodeID, MessageLogBase p_Messages out) Retrieves the AIR entity object from the student's APT based on the node ID of the item in Program Format. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method.
public BaseAIREntity	getAIRItemByNodeIDInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_nodeID, MessageLogBase p_Messages out) Retrieves the AIR entity object from the student's APT based on the node ID of the item in Program Format.

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Return Data Type	*Name and Description*
public void	getAllItemIDsByType (BasicEntity p_tree, string p_SSR_ITEM_TYPE, array of string p_Items out) This method returns a list of all item IDs that match the parameter p_SSR_ITEM_TYPE in the entity tree p_tree.
public void	getAllItemsByType (BasicEntity p_tree, string p_SSR_ITEM_TYPE, array of BasicEntity p_Items out) This method returns all items under &p_tree that match the item type value provided in &p_SSR_ITEM_TYPE.
public BaseAPTEntity	getAPTItemByNodeID (number p_nodeID, MessageLogBase p_Messages out) Retrieves the APT entity object from the student's APT based on the node ID of the item in Program Format. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method.
public BaseAPTEntity	getAPTItemByNodeIDInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_nodeID, MessageLogBase p_Messages out) Retrieves the APT entity object from the student's APT based on the node ID of the item in Program Format.
public string	getCurrentPlanningNodeItemID (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Finds the current planning node item ID of the student from the APT. This method examines AIR and APT structures of the student and determines the planning node item ID.
public void	getHeader (string p_Emplid, string p_Institution, number p_Student_car_nbr) Retrieves an existing header, allows adding/editing of children.
public void	getHeaderEfficiently (string emplid, string institution, number instance) Retrieves an existing header, allows adding/editing of children. This method is more efficient from a performance perspective than getHeader().

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Return Data Type	*Name and Description*
public string	getNextPlanningNodeItemID (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Finds the planning node item ID that should be activated next. This method examines AIR and APT structures of the student and determines the next planning node item ID that should be activated.
public void	Initialize() Initializes state properties ProgramFormat, EnrollmentCohort and PoS based on the current APTHeader value.
public boolean	removeIAMEnrollentDataForItem(number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Removes Individual Activity Management (IAM) enrollment information from a student's APT course item.
public boolean	removeIAMEnrollentDataForItemInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Removes Individual Activity Management (IAM) enrollment information from a student's APT course item.
public boolean	removeItem (string p_APT_Item_ID, MessageLogBase p_Messages out) Removes an APT Item from the student's APT structure. Invoke the APT API save() method to really delete it from the backend tables. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method.
public boolean	removeItemFromAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_APT_Item_ID, MessageLogBase p_Messages out) Removes an APT Item from the student's APT structure. Invoke the APT API save() method to really delete it from the backend tables.

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Return Data Type	*Name and Description*
public boolean	removeSubstituteItem (string p_Substitute_Item_ID, MessageLogBase p_Messages out) Remove a substitute item from the student's APT structure. This method must be used instead of removeItem or removeItemFromAPTHeader methods to remove a substitute item. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method.
public boolean	removeSubstituteItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_Substitute_Item_ID, MessageLogBase p_Messages out) Remove a substitute item from the student's APT structure. This method must be used instead of removeItem or removeItemFromAPTHeader methods to remove a substitute item.
public MessageLogBase	Save( ) Saves the header and all children, if it is a new header creates a counter row.
public void	saveExceptionToLog (string p_component, Exception p_exception) This method will write debugging information to the SOA log file/table (based on SOA setup) based on the passed in exception object.
public boolean	setContextRoot (string p_itemID) Provide an EQT or Planning node item ID as parameter to set it as the API's context root item. This will help the API perform certain operations faster as it operates within the APT sub-tree of the planning/term node. This is not mandatory, but greatly improves performance of the APIT methods.
public boolean	substituteItem (string p_Item_ID, string p_Substitute_Item_ID, MessageLogBase p_Messages out) Substitutes one APT Item with another in the student's APT structure. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method.

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Return Data Type	*Name and Description*
public boolean	substituteItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_Item_ID, string p_Substitute_Item_ID, MessageLogBase p_Messages out) Substitutes one APT Item with another in the student's APT structure.
public boolean	TermActivate (BaseAPTEntity p_APTEnity, MessageLogBase p_Messages out) This method creates a new row in STDNT_CAR_TERM for the term value specified in the APT schedule.

Details

Property Detail:

Name	*Details*
APTHeader	APTHeader The APT Header APT Entity object that is populated when the getHeader() method is invoked.
CONTEXT_ROOT	public BasicEntity The APT Entity object which is set as the root context for all method processing in the API. This is usually set as the planning node or equates to term node APT item. This property is set by consumers of the API so that only items that fall under this root item are processed. If this property is blank, the APT Header is considered as the root item. This property is set when the setContextRoot() method is invoked.
CONTEXT_ROOT_AIR	public BasicEntity The AIR Entity object which is set as the root context for all method processing in the API. This is usually set as the planning node or equates to term node AIR item. This property is set by consumers of the API so that only items that fall under this root item is processed. If this property is blank, the PoS property is considered as the root item. This property is set when the setContextRoot() method is invoked.
CRSE_FILTER	public string This property determines if the APT structure should fill completed and in-progress courses. Set value 'Y' if the Course should ignore completed and in-progress courses.

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Name	***Details***
EnrollmentCohort	public EnrollmentCohort The enrollment cohort object corresponding to the APT Header in context.
FILL_COURSE_GROUP	public Boolean Set this property to true if the course group entities should be populated in the AIR structure.
FILL_COURSE_OFFERING	public Boolean Set this property to false to turn off loading course offering details entity under AIR Course, default is true.
FILL_NON_PFN_ITEMS	public Boolean Set this property to false if non planning node items should be excluded from the AIR structure.
PERFORM_VALIDATE	public Boolean Set this property to false if validation logic should be ignored when save() method is invoked. By default, validation logic is processed when save method is invoked.
PoS	public BaseAIREntity The Program of Study AIR Entity object corresponding to the APT Header object. This property is automatically instantiated along with the APTHeader APT Entity object when the getHeader() method is invoked.
ProgramFormat	public ProgramFormatSetup The program format object corresponding to the APT Header in context.
TERM_ACTIVATE	public boolean Set this property to true to term activate into terms defined in the EQT items on save.

Constructor Detail:

Name	***Details***
APTAPI	public APTAPI ()

Method Detail:

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Name	***Details***
activateCurrentPlanningNode	public boolean activateCurrentPlanningNode (MessageLogBase p_Messages out) Activates the current planning node and all its program format tree node child items by setting the APT Attempt status to 'Activated'. This method will perform this operation only if the attempt status of the current planning node is null. Parameters: MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean
activateCurrentPlanningNodeInAPTHeader	public boolean activateCurrentPlanningNodeInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Activates the current planning node and all its program format tree node child items by setting the APT Attempt status to 'Activated'. This method will perform this operation only if the attempt status of the current planning node is null. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
activateProgFormatNode	public boolean activateProgFormatNode(BaseAPTEntity p_APT_Entity, MessageLogBase p_Messages out) Activates the Program Format node entity object passed in as a parameter. Parameters: • BaseAPTEntity p_APT_Entity - The program format node APT entity that should be activated. • MessageLogBase p_Messages(out) Returns: boolean
addIAMEnrollentDataForItem	public boolean addIAMEnrollentDataForItem (number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Adds Individual Activity Management (IAM) enrollment information to a student's APT course item. Parameters: • number p_SSR_APT_ITEM_SEQ - APT item sequence of the item to be updated • number p_ATTEMPT_NBR - APT attempt number of the item to be updated • string p_Term • string p_SSR_ACTIVITY_ID - IAM activity ID • number p_SSR_ACT_ID_SEQ_NBR - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
addIAMEnrollentDataForItemInAPTHeader	public boolean addIAMEnrollentDataForItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Adds Individual Activity Management (IAM) enrollment information to a student's APT course item. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • number p_SSR_APT_ITEM_SEQ - APT item sequence of the item to be updated • number p_ATTEMPT_NBR - APT attempt number of the item to be updated • string p_Term • string p_SSR_ACTIVITY_ID - IAM activity ID • number p_SSR_ACT_ID_SEQ_NBR - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
addItem	public BaseAPTEntity addItem (string p_AIR_Item_ID, MessageLogBase p_Messages out) Adds an AIR Item to a student's APT. This method takes care of automatically adding the parent items (if they do not exist) and adds child items based on the enrollment category of the item being added. This method requires that an APT header record already exists for the student and it should be populated in the APTAPI property APTHeader by invoking the getHeader method. Parameters: • string p_AIR_Item_ID - Item ID of the AIR item that must be added to the student's APT • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: BaseAPTEntity
addItemToAPTHeader	public BaseAPTEntity addItemToAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_AIR_Item_ID, MessageLogBase p_Messages out) Adds an AIR Item to a student's APT. This method takes care of automatically adding the parent items (if they do not exist) and adds child items based on the enrollment category of the item being added. This method requires that an APT header record already exists for the student. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • string p_AIR_Item_ID - Item ID of the AIR item that must be added to the student's APT • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: BaseAPTEntity

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Name	***Details***
addItemUnderAPTItem	public BaseAPTEntity addItemUnderAPTItem (string p_Emplid, string p_Institution, number p_Instance, string p_Parent_Item_ID, string p_Child_Item_ID, MessageLogBase p_Messages out) Adds an AIR Item as a child to a specific APT item. This method can be used to add an item that is not present in the AIR hierarchy. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • string p_Parent_Item_ID - Item ID of the parent APT item under which the new item must be created as a child • string p_Child_Item_ID - Item ID of the AIR item to be created • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: BaseAPTEntity

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Name	***Details***
addItemUnderAPTItemV2	public BaseAPTEntity addItemUnderAPTItem(string p_Emplid, string p_Institution, number p_Instance, string p_Parent_Item_ID, number p_Parent_Item_seq, string p_Child_Item_ID, MessageLogBase p_Messages out) Adds an AIR Item as a child to a specific APT item. This method can be used to add an item that is not present in the AIR hierarchy. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • string p_Parent_Item_ID - Item ID of the parent APT item under which the new item must be created as a child • number p_Parent_Item_seq - APT Item sequence (SSR_APT_ITEM_SEQ) of the parent APT item under which the new item must be created as a child • string p_Child_Item_ID - Item ID of the AIR item to be created • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: BaseAPTEntity

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Name	***Details***
createAPTAttemptForItem	public APTAttempt createAPTAttemptForItem (BaseAPTEntity p_parent, BaseAIREntity p_parent_AIR_ Entity, MessageLogBase p_Messages out) Adds a new APT Attempt row for an APT item. This method also creates the APT schedule and APT Result data for the newly created APT Attempt. Parameters: • BaseAPTEntity p_parent - Parent APT item under which this new APT Attempt must be created • BaseAIREntit p_parent_AIR_Entity – The corresponding AIR item of the p_parent APT item • MessageLogBase p_Messages(out) Returns: APTAttempt
createAPTHeader	public boolean createAPTHeader(string p_Emplid, string p_ Acad_career, number p_Student_car_nbr, string p_Institution, MessageLogBase p_Messages out) Creates a new APT Header record. To save the newly created APT Header to the database invoke the save method. **Note:** The student program stack ACAD_PROG.SSR_APT_ INSTANCE is not updated by this method. Parameters: • string p_Emplid - The Employee ID of the student • string p_Acad_career - The student's academic career in program/plan • number p_Student_car_nbr - The student's career number in program/plan • string p_Institution - The Institution value • MessageLogBase p_Messages(out) - Messages/Warnings if any will be added to this object. Returns: boolean

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Name	***Details***
createAPTHeaderFromEntity	public boolean createAPTHeaderFromEntity (StudentProgram p_StudentProgram, MessageLogBase p_Messages out) Creates a new APT Header record. This method uses a pre-populated entity object SSR_CAREER_TERM:Accessors:StudentProgram. This method holds the core logic for creating the APT header and is invoked by all the other methods that create APT header. To save the newly created APT Header to the database invoke the save method. **Note:** The student program stack ACAD_PROG.SSR_APT_INSTANCE is not updated by this method. Parameters: • StudentProgram p_StudentProgram - ACAD_PROG entity object • MessageLogBase p_Messages(out) - Messages/Warnings if any will be added to this object Returns: boolean
createAPTHeaderFromRecord	public boolean createAPTHeaderFromRecord (Record p_recACAD_PROG, MessageLogBase p_Messages out) Creates a new APT Header record. This method is meant to be used from online components by passing the ACAD_PROG component buffer record as the parameter. To save the newly created APT Header to the database invoke the save method. **Note:** The student program stack ACAD_PROG.SSR_APT_INSTANCE is not updated by this method. Parameters: • Record p_recACAD_PROG - ACAD_PROG component buffer record object • MessageLogBase p_Messages(out) - Messages/Warnings if any will be added to this object Returns: boolean

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Name	***Details***
createAPTItem	public BaseAPTEntity createAPTItem (BasicEntity p_parent, string p_SSR_ITEM_ID, BaseAIREntity p_AIR_Entity, boolean p_full_mode, MessageLogBase p_Messages out) Create one APT item under a parent APT item. This also creates the APT attempt, schedule and result records. Child academic items are also created based on the mode parameter and the enrollment category associated with the item. Parameters: • BasicEntity p_parent - Parent APT item under which this new APT item must be created • string p_SSR_ITEM_ID - AIR item ID of the APT item to be created • BaseAIREntity p_AIR_Entity - The corresponding AIR entity object of the APT item to be created • boolean p_full_mode - If true then it creates all children and cascades to create grandchildren and so on, if false only creates itself and any children which have enrollment category auto add option turned on • MessageLogBase p_Messages(out) Returns: BaseAPTEntity
createCounterRecord	public void createCounterRecord(string p_Emplid, string p_Institution, number p_Instance) This method should be called to setup the counter record SSR_APT_ITM_CNT. If a row already exists for the given emplid, institution and APT instance key values, it verifies if the counter value is correct and updates it to the right value if it is not. If a counter row does not exist for the given keys then it creates a new row with the correct counter value. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student

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Name	***Details***
deleteAPTHeader	public boolean deleteAPTHeader (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Deletes APT Header record. Delete is only allowed if there are no references in student program stack or admissions application stack. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • MessageLogBase p_Messages(out) - Messages/Warnings if any will be added to this object Returns: boolean
dropEnrolledItem	public boolean dropEnrolledItem (number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Deletes enrollment information to a student's APT course item. Parameters: • number p_SSR_APT_ITEM_SEQ • number p_ATTEMPT_NBR • string p_Term - Term into which the enrollment was made • number p_classNumber - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
dropEnrolledItemInAPTHeader	public boolean dropEnrolledItemInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Deletes enrollment information from a student's APT course item. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • number p_SSR_APT_ITEM_SEQ • number p_ATTEMPT_NBR • string p_Term - Term into which the enrollment was made • number p_classNumber - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
enrollItem	public boolean enrollItem(number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Adds enrollment information to a student's APT course item. Parameters: • number p_SSR_APT_ITEM_SEQ • number p_ATTEMPT_NBR • string p_Term - Term into which the enrollment was made • number p_classNumber - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean
enrollItemInAPTHeader	public boolean enrollItemInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, number p_classNumber, MessageLogBase p_Messages out) Adds enrollment information to a student's APT course item. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • number p_SSR_APT_ITEM_SEQ • number p_ATTEMPT_NBR • string p_Term - Term into which the enrollment was made • number p_classNumber - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
findAPTElementByItemSequence	public BaseAPTEntity findAPTElementByItemSequence (BaseAPTEntity p_tree, number p_SSR_APT_ITEM_SEQ, array of string p_breadcrumbs out) Searches for and returns an entity object based on the APT item sequence number specified. It can be used only in APT trees. Parameters: • BaseAPTEntity p_tree - The root node from where the search should start • number p_SSR_APT_ITEM_SEQ - The Item ID of the item to be found • array of string p_breadcrumbs(out)- This array of string will be populated with entity IDs of the parent items from the element (being searched for) to the root. Returns: BaseAPTEntity
findElementByItemID	public BasicEntity findElementByItemID (BasicEntity p_tree, string p_SSR_ITEM_ID, array of string p_breadcrumbs out) Searches for and returns an entity object based on the item ID specified. It can be used for both AIR and APT trees. Parameters: • BasicEntity p_tree - The root node from where the search should start • string p_SSR_ITEM_ID - The Item ID of the item to be found • array of string p_breadcrumbs(out) - This array of string will be populated with entity IDs of the parent items from the element (being searched for) to the root. Returns: BasicEntity

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Name	***Details***
getAIRItemByNodeID	public BaseAIREntity getAIRItemByNodeID(number p_nodeID, MessageLogBase p_Messages out) Retrieves the AIR entity object from the student's APT based on the node ID of the item in Program Format. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method. Parameters: • number p_nodeID - The node ID from Program Format • MessageLogBase p_Messages(out) Returns: BaseAIREntity
getAIRItemByNodeIDInAPTHeader	public BaseAIREntity getAIRItemByNodeIDInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_nodeID, MessageLogBase p_Messages out) Retrieves the AIR entity object from the student's APT based on the node ID of the item in Program Format. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • number p_nodeID - The node ID from Program Format • MessageLogBase p_Messages(out) Returns: BaseAIREntity

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Name	***Details***
getAllItemIDsByType	public void getAllItemIDsByType (BasicEntity p_tree, string p_SSR_ITEM_TYPE, array of string p_Items out) This method returns a list of all item IDs that match the parameter p_SSR_ITEM_TYPE in the entity tree p_tree. Parameters: • BasicEntity p_tree • string p_SSR_ITEM_TYPE • array of string p_Items(out)
public void	getAllItemsByType (BasicEntity p_tree, string p_SSR_ITEM_TYPE, array of BasicEntity p_Items out) This method returns all items under parameter p_tree that match the item type value provided in p_SSR_ITEM_TYPE. Parameters: • BasicEntity p_tree • string p_SSR_ITEM_TYPE • array of BasicEntity p_Items(out)
getAPTItemByNodeID	public BaseAPTEntity getAPTItemByNodeID(number p_nodeID, MessageLogBase p_Messages out) Retrieves the APT entity object from the student's APT based on the node ID of the item in Program Format. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method. Parameters: • number p_nodeID - The node ID from Program Format • MessageLogBase p_Messages(out) Returns: BaseAPTEntity

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Name	***Details***
getAPTItemByNodeIDInAPTHeader	public BaseAPTEntity getAPTItemByNodeIDInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_nodeID, MessageLogBase p_Messages out) Retrieves the APT entity object from the student's APT based on the node ID of the item in Program Format. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • number p_nodeID - The node ID from Program Format • MessageLogBase p_Messages(out) Returns: BaseAPTEntity
getCurrentPlanningNodeItemID	public string getCurrentPlanningNodeItemID (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Finds the current planning node item ID of the student from the APT. This method examines AIR and APT structures of the student and determines the planning node item ID. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: string

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Name	***Details***
getHeader	public void getHeader (string p_Emplid, string p_Institution, number p_Student_car_nbr) Retrieves an existing header, allows adding/editing of children. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value of the student • number p_Student_car_nbr - The student's career number in program/plan
getHeaderEfficiently	public void getHeaderEfficiently(string emplid, string institution, number instance) Retrieves an existing header, allows adding/editing of children. This method is more efficient from a performance perspective than getHeader(). Parameters: • string emplid • string institution • number instance
getNextPlanningNodeItemID	public string getNextPlanningNodeItemID (string p_Emplid, string p_Institution, number p_Instance, MessageLogBase p_Messages out) Finds the planning node item ID that should be activated next. This method examines AIR and APT structures of the student and determines the next planning node item ID that should be activated. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: string

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Name	***Details***
Initialize	public void Initialize() Initializes state properties ProgramFormat, EnrollmentCohort and PoS based on the current APTHeader value.
removeIAMEnrollentDataForItem	public boolean removeIAMEnrollentDataForItem(number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Removes Individual Activity Management (IAM) enrollment information from a student's APT course item. Parameters: • number p_SSR_APT_ITEM_SEQ - APT item sequence of the item to be updated • number p_ATTEMPT_NBR - APT attempt number of the item to be updated • string p_Term • string p_SSR_ACTIVITY_ID - IAM activity ID • number p_SSR_ACT_ID_SEQ_NBR - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
removeIAMEnrollentDataForItemInAPTHeader	public boolean removeIAMEnrollentDataForItemInAPTHeader(string p_Emplid, string p_Institution, number p_Instance, number p_SSR_APT_ITEM_SEQ, number p_ATTEMPT_NBR, string p_Term, string p_SSR_ACTIVITY_ID, number p_SSR_ACT_ID_SEQ_NBR, MessageLogBase p_Messages out) Removes Individual Activity Management (IAM) enrollment information from a student's APT course item. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • number p_SSR_APT_ITEM_SEQ - APT item sequence of the item to be updated • number p_ATTEMPT_NBR - APT attempt number of the item to be updated • string p_Term • string p_SSR_ACTIVITY_ID - IAM activity ID • number p_SSR_ACT_ID_SEQ_NBR - The class enrolled into • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
removeItem	public boolean removeItem (string p_APT_Item_ID, MessageLogBase p_Messages out) Removes an APT Item from the student's APT structure. Invoke the APT API save() method to really delete it from the backend tables. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method. Parameters: • string p_APT_Item_ID - Item ID of the AIR item that must be removed from the student's APT • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean
removeItemFromAPTHeader	public boolean removeItemFromAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_APT_Item_ID, MessageLogBase p_Messages out) Removes an APT Item from the student's APT structure. Invoke the APT API save() method to really delete it from the backend tables. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • string p_APT_Item_ID - Item ID of the AIR item that must be removed from the student's APT • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
removeSubstituteItem	public boolean removeSubstituteItem (string p_Substitute_Item_ID, MessageLogBase p_Messages out) Remove a substitute item from the student's APT structure. This method must be used instead of removeItem or removeItemFromAPTHeader to remove a substitute item The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method. Parameters: • string p_Substitute_Item_ID - Item ID of the APT substitute item that must be removed • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean
removeSubstituteItemInAPTHeader	public boolean removeSubstituteItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_Substitute_Item_ID, MessageLogBase p_Messages out) Remove a substitute item from the student's APT structure. This method must be used instead of removeItem or removeItemFromAPTHeader methods to remove a substitute item. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • string p_Substitute_Item_ID - Item ID of the APT substitute item that must be removed • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
save	public MessageLogBase Save() Saves the header and all children, if it is a new header creates a counter row. Returns: MessageLogBase
saveExceptionToLog	public void saveExceptionToLog(string p_component, Exception p_exception) This method will write debugging information to the SOA log file/table (based on SOA setup) based on the passed in exception object. Parameters: • string p_component - Name of the component/process/event that encountered the exception. Used for identifying the source of entry in the log. • Exception p_exception - The exception object. Error message and stack trace information will extracted from this object to be saved to the log.
setContextRoot	public boolean setContextRoot (string p_itemID) Provide an EQT or Planning node item ID as parameter to set it as the API's context root item. This will help the API perform certain operations faster as it operates within the APT sub-tree of the planning/term node. This is not mandatory, but greatly improves performance of the APIT methods. Parameters: string p_itemID - APT item ID of a planning or equates to term node in the APT Returns: boolean

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Name	***Details***
substituteItem	public boolean substituteItem (string p_Item_ID, string p_Substitute_Item_ID, MessageLogBase p_Messages out) Substitutes one APT Item with another in the student's APT structure. The APT Header should be populated in the APTAPI property APTHeader by invoking the getHeader method prior to calling this method. Parameters: • string p_Item_ID - Item ID of the AIR item that must be substituted • string p_Substitute_Item_ID - Item ID of the AIR item that must be substituted • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean
substituteItemInAPTHeader	public boolean substituteItemInAPTHeader (string p_Emplid, string p_Institution, number p_Instance, string p_Item_ID, string p_Substitute_Item_ID, MessageLogBase p_Messages out) Substitutes one APT Item with another in the student's APT structure. Parameters: • string p_Emplid - The Employee ID of the student • string p_Institution - The Institution value • number p_Instance - The APT instance number of the student • string p_Item_ID - Item ID of the AIR item that must be substituted • string p_Substitute_Item_ID - Item ID of the AIR item that must be substituted • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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Name	***Details***
TermActivate	public boolean TermActivate (BaseAPTEntity p_APTEnity, MessageLogBase p_Messages out) This method creates a new row in STDNT_CAR_TERM for the term value specified in the APT schedule. Parameters: • BaseAPTEntity p_APTEnity - The APT entity whose scheduler STRM should be used for term activation • MessageLogBase p_Messages(out) - Messages/Warning if any will be added to this object Returns: boolean

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