



## WIDS Application Programming Interfaces (API)

### Introduction

WIDS offers and supports Application Programming Interfaces which allow clients to retrieve data directly from the WIDS database as well as perform a few very basic WIDS functions.

APIs will typically be used by WIDS clients in one of two scenarios. In the first scenario data is pulled from WIDS and displayed on a client website or used to populate other data systems. In the second scenario WIDS data is updated from other data systems such as PeopleSoft. To support these scenarios, web-based services will be published that will allow WIDS clients to programmatically interact with the WIDS database. These services will be secured and will only be accessible using a private key that will be issued to WIDS clients.

While all services will be available over the web, the services that retrieve data will use a different approach than those that update information in the WIDS database. Retrieving data from WIDS will be supported via a Representational State Transfer or REST data service ([http://en.wikipedia.org/wiki/Representational\\_state\\_transfer](http://en.wikipedia.org/wiki/Representational_state_transfer)). REST services are very powerful in that they give the end client a lot of flexibility in the technologies they use and flexibility on how to present the data. REST services can be consumed by most all modern development languages and from web pages using JavaScript. While REST services can also be utilized to update the database that they pull data from, depending on implementation, there can be some issues with cross site scripting that can cause problems. Due to these concerns, actions that result in the WIDS database being update will be implemented using a more traditional XML Web Service ([http://en.wikipedia.org/wiki/Web\\_service](http://en.wikipedia.org/wiki/Web_service)).

### Intended Audience

This document is intended for the IT professional(s) that will implement the APIs. It is expected that the reader is familiar with writing scripts or programs to consume web services.

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## Summary of WIDS APIs

### Data Transaction Objects (DTOs)

#### *Course*

- Course Bibliography
- Course Custom Field Value
- Course
- Course Goal
- Course Guideline
- Course Info Revision
- Course Learning Supply
- Course Pre-requisite
- Course Textbook
- Course Competency ○ Course Competency Criteria ○ Course Competency Strategies ○ Course Competency Objectives

#### *Program*

- Program Job Title
- Program
- Program Indirect Measures
- Program Info Revision

#### *Project*

- Core Ability
- External Standard Set
- External Standard
- General Education Outcome
- Program Outcome
- Project
- Course level COS Custom Fields
- Program level COS Custom Fields

#### *Site*

- Subunit
- Unit
- User

## Data Calls

- Get User
- Get Units
- Get Projects
- Get Program
- Get Course

## API Calls

The following section includes working API call URLs that reference a sample API service.

**Please Note:**

- Schools need to replace the sample API key with their individually assigned School API key.
- Schools need to replace the <http://widsservice.yaharasoftware.com> portion of the URL with <http://api.wids.org> in order to access their own WIDS database.

<b>Get Users</b>	
<b>Interface:</b>	JSON: <a href="http://widsservice.yaharasoftware.com/WidsService/JSON/GetUsers?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC7368FF-4AC2-BB85-F7C6EE46EC73">http://widsservice.yaharasoftware.com/WidsService/JSON/GetUsers?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC7368FF-4AC2-BB85-F7C6EE46EC73</a> XML: <a href="http://widsservice.yaharasoftware.com/WidsService/XML/GetUsers?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC7368FF-4AC2-BB85-F7C6EE46EC73">http://widsservice.yaharasoftware.com/WidsService/XML/GetUsers?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC7368FF-4AC2-BB85-F7C6EE46EC73</a>
<b>Description:</b>	Returns the list of all system users
<b>Inputs:</b>	API Key
<b>Outputs:</b>	See UserDTO for details
<b>Example:</b>	See Appendix A

<b>Get Units</b>	
<b>Interface:</b>	JSON: <a href="http://widsservice.yaharasoftware.com/WidsService/JSON/GetUnits?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73">http://widsservice.yaharasoftware.com/WidsService/JSON/GetUnits?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73</a> XML: <a href="http://widsservice.yaharasoftware.com/WidsService/XML/GetUnits?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73">http://widsservice.yaharasoftware.com/WidsService/XML/GetUnits?apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73</a>
<b>Description:</b>	Returns the list of all units and their corresponding subunits
<b>Inputs:</b>	API Key
<b>Outputs:</b>	See UnitDTO and SubunitDTO for details
<b>Example:</b>	See Appendix B

<b>Get Projects</b>	
<b>Interface:</b>	<p>JSON:  <a href="http://widsservice.yaharasoftware.com/WidsService/JSON/GetProjects?status=1&amp;unit=EC349972-287F-4050-8A67-8403092144B7&amp;subunit=2603B2EC-4028-4C83-BCD6-03D3104DD9F0&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback">http://widsservice.yaharasoftware.com/WidsService/JSON/GetProjects?status=1&amp;unit=EC349972-287F-4050-8A67-8403092144B7&amp;subunit=2603B2EC-4028-4C83-BCD6-03D3104DD9F0&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback</a></p> <p>XML:  <a href="http://widsservice.yaharasoftware.com/WidsService/XML/GetProjects?status=1&amp;unit=9e6a8d03-3387-43f8-95c1-698cfba2944a&amp;subunit=54FC83F9-05D7-48D2-ADAB-266C1ABB6922&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback">http://widsservice.yaharasoftware.com/WidsService/XML/GetProjects?status=1&amp;unit=9e6a8d03-3387-43f8-95c1-698cfba2944a&amp;subunit=54FC83F9-05D7-48D2-ADAB-266C1ABB6922&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback</a></p>
<b>Description:</b>	Returns the list of system projects based on filters
<b>Inputs:</b>	API Key, Status, Unit, Subunit (See index guide on page 5 for status input values)
<b>Outputs:</b>	See ProjectDTO for details
<b>Example:</b>	See Appendix C

<b>Get Course</b>	
<b>Interface:</b>	<p>JSON: <a href="http://widsservice.yaharasoftware.com/WidsService/JSON/GetCourse/53EF6211-B7B4-4A5B-B608-EABBFDB7905D?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73">http://widsservice.yaharasoftware.com/WidsService/JSON/GetCourse/53EF6211-B7B4-4A5B-B608-EABBFDB7905D?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73</a></p> <p>XML: <a href="http://widsservice.yaharasoftware.com/WidsService/XML/GetCourse/53EF6211-B7B4-4A5B-B608-EABBFDB7905D?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73">http://widsservice.yaharasoftware.com/WidsService/XML/GetCourse/53EF6211-B7B4-4A5B-B608-EABBFDB7905D?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73</a></p>
<b>Description:</b>	Returns data for the specified course, outcomes associated with the course are filtered based on the status sent. If no status value is provided all outcomes are returned.
<b>Inputs:</b>	API Key; Course ID, , Status (status is applied to outcomes only)
<b>Outputs:</b>	See CourseDTO for details
<b>Example:</b>	See Appendix D

<b>Get Program</b>	
<b>Interface:</b>	<p>JSON:  <a href="http://widsservice.yaharasoftware.com/WidsService/JSON/GetProgram/4656FC1B-BADB-4F9E-A2F0-45CE72FF7E75?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback">http://widsservice.yaharasoftware.com/WidsService/JSON/GetProgram/4656FC1B-BADB-4F9E-A2F0-45CE72FF7E75?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback</a></p> <p>XML:  <a href="http://widsservice.yaharasoftware.com/WidsService/XML/GetProgram/4656FC1B-BADB-4F9E-A2F0-45CE72FF7E75?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback">http://widsservice.yaharasoftware.com/WidsService/XML/GetProgram/4656FC1B-BADB-4F9E-A2F0-45CE72FF7E75?status=1&amp;apikey=8605493C-68FF-4AC2-BB85-F7C6EE46EC73&amp;callback</a></p>
<b>Description:</b>	Returns data for the specified program, outcomes associated with the program are filtered based on the status sent. If no status value is provided all outcomes are returned.
<b>Inputs:</b>	API Key; Program ID, Status (status is applied to outcomes only)
<b>Outputs:</b>	See ProgramDTO and CourseDTO for details
<b>Example:</b>	See Appendix E

<b>Status Index Guide</b>	<b>Binary Value</b>
<b>Active</b>	1
<b>Expired</b>	2
<b>Future</b>	4
<b>WIP</b>	8
<b>Pending</b>	16
<b>Personal</b>	32

## API DTOs

<b>Object Name:</b>	<b>UnitDTO</b>	
<b>Fields:</b>	Guid OrgUnitID	WIDS unique id for the unit
	String Name	Name of the unit
	String Description	Description of the unit
	String MissionStatement	Mission Statement of the unit
	String SchoolSystemID	School system unique id for the unit
	List <DTO> SubUnitDTO	See SubUnitDTO for details

<b>Object Name:</b>	<b>SubUnitDTO</b>	
<b>Fields:</b>	Guid OrgSubUnitID	WIDS unique id for the subunit
	Guid UnitID	WIDS unique id for the unit
	String Name	Name of the subunit
	String Description	Description of the subunit
	String MissionStatement	Mission Statement of the subunit
	String SchoolSystemID	School system unique id for the unit

<b>Object Name:</b>	<b>UserDTO</b>	
<b>Fields:</b>	String LastName	Last name of the user
	String FirstName	First name of the user
	String Title	Title of the user
	String Department	Department to which the user belongs
	String UserName	
	String EmailAddress	Email address of the user
	Boolean Disabled	Indicates if the user is active or disabled
	Boolean UseActiveDirectory	Indicates if the school uses AD
	Guid ObjectGuidAD	School active directory unique ID
	String SchoolSystemId	School system unique id for the unit

<b>Object Name:</b>	<b>CourseDTO</b>	
<b>Fields:</b>	String AlternativeTitle	COS/Course Information
	String CourseDescription	COS/Course Information
	Decimal TotalCredits	COS/Course Information
	Decimal TotalHours	COS/Course Information
	String TargetPopulation	COS/Target Population
	List <DTO> CourseGoalDTO	See Course Goal DTO for details
	List <DTO> CourseTextbookDTO	See Course Textbook DTO for details
	List <DTO> CoursePrerequisiteDTO	See Course Prerequisite DTO for details
	List <DTO> CourseBibliographyDTO	See Course Bibliography DTO for details
	List <DTO> CourseLearnerSupplyDTO	See Course Learner Supply DTO for details
	String GradingInformation	COS/Grading Information
	List <DTO> CourseGuidelinesDTO	See Course Guidelines DTO for details

	List <DTO> CoreAbilityDTO	See Core Ability DTO for details
	List <DTO> GenEdOutcomeDTO	See Gen Ed Outcomes DTO for details
	List <DTO> ProgramOutcomeDTO	See Program Outcomes DTO for details
	List <DTO> ExternalStandardSetDTO	See External Standard Set DTO for details
	List <DTO> CourseCompetencyDTO	See Course Competency DTO for details

<b>Object Name:</b>	<b>CourseCompetencyDTO</b>	
<b>Fields:</b>	Guid CourseCompetencyID	WIDS unique ID for the competency
	Guid CourseRevisionID	WIDS unique ID for the course revision
	String CompetencyDescription	
	Int SortOrder	Identified location in sort order for the item
	String ObjectiveListFormat	List of associated learning objectives
	String CriteriaListFormat	List of associated criteria
	String StrategyListFormat	List of associated Strategies
	String CriteriaLeadIn	Lead in text for the criteria
	String Domain	Domain associated with the competency
	String Level	Level associated with the domain
	DateTime EffectiveDate	Start date for the competency
	DateTime EndDate	Expiration date for the competency
	String CreatedBy	User id of the record creator
	DateTime CreatedOn	
	String EditedBy	User id who made the latest edit
	DateTime EditedOn	
	List<DTO>CourseCompetencyCriterion	See Course Competency Criterion DTO
	List <DTO>CourseCompetencyObjective	See Course Competency Objective DTO
	List<DTO>CourseCompetencyStrategy	See Course Competency Strategy DTO

<b>Object Name:</b>	<b>CourseBibliographyDTO</b>	
<b>Fields:</b>	Guid CourseBibliographyID	WIDS unique id for the bibliography item
	Guid CourseRevisionID	WIDS unique id for the course revision
	String BibliographyDetail	
	String BibliographyCitation	
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseCustomFieldValueDTO</b>	
<b>Fields:</b>	Guid CourseCustomFieldID	WIDS unique id for the course custom field or the site custom field depending on the source
	Guid CourseRevisionID	WIDS unique id for the course revision
	String FieldName	Name of the custom field
	String FieldValue	Display value for the custom field
	String FieldDescription	Description for the custom field
	CustomFieldType FieldType	Identifies the type of field; i.e. Program, Course etc.



<b>Object Name:</b>	<b>CourseGoalDTO</b>	
<b>Fields:</b>	Guid CourseGoalID	WIDS unique id for the goal item
	Guid CourseRevisionID	WIDS unique id for the course revision
	String GoalDescription	Description of the goal
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseGuidelineDTO</b>	
<b>Fields:</b>	Guid CourseGuidelineID	WIDS unique id for the guideline item
	Guid CourseRevisionID	WIDS unique id for the course revision
	String GuidelineTitle	Title of the guideline
	String GuidelineDescription	Description of the guideline
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseInfoRevisionDTO</b>	
<b>Fields:</b>	Guid CourseInfoRevisionId	WIDS unique id for the info revision
	Guid CourseRevisionID	WIDS unique id for the course revision
	String CourseNumber	
	String CourseTitle	
	String AlternateTitle	
	String CourseDescription	
	String InstructionalLevel	
	String CareerCluster	
	Decimal TotalHours	
	Decimal TotalCredits	
	DateTime EffectiveDate	Start date for the info revision
	DateTime EndDate	End date for the info revision

<b>Object Name:</b>	<b>CourseLearnerSupplyDTO</b>	
<b>Fields:</b>	Guid LearnerSupplyId	WIDS unique id for the learner supply
	Guid CourseRevisionID	WIDS unique id for the course revision
	String LearnerSupplyCitation	
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CoursePrerequisiteDTO</b>	
<b>Fields:</b>	Guid CoursePrerequisiteId	WIDS unique id for the prerequisite
	Guid CourseRevisionID	WIDS unique id for the course revision
	String PrerequisiteDescription	Description of the prerequisite
	String PrerequisiteType	Identifies pre or co-requisite
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseTextbookDTO</b>	
<b>Fields:</b>	Guid CourseTextbookId	WIDS unique id for the textbook

	Guid CourseRevisionID	WIDS unique id for the course revision
	String TextbookDetail	Description of the textbook
	String TextbookCitation	
	String SchoolSystemID	School system unique id for the unit
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseCompetencyCriterion</b>	
<b>Fields:</b>	Guid CourseCompetencyCriterionID	WIDS Unique ID for the criterion
	Guid CourseCompetencyID	WIDS unique ID for the competency
	String CriterionDescription	Description of the criterion
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseCompetencyObjective</b>	
<b>Fields:</b>	Guid CourseCompetencyObjectiveID	WIDS Unique ID for the objective
	Guid CourseCompetencyID	WIDS unique ID for the competency
	String ObjectiveDescription	Description of the objective
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CourseCompetencyStrategy</b>	
<b>Fields:</b>	Guid CourseCompetencyStrategyID	WIDS Unique ID for the strategy
	Guid CourseCompetencyID	WIDS unique ID for the competency
	String StrategyDescription	Description of the strategy
	Integer SortOrder	Identified location in sort order for the item

<b>Object Name:</b>	<b>CoreAbilityDTO</b>	
<b>Fields:</b>	Guid CoreAbilityID	WIDS unique id for the Core Ability
	String Description	
	String Type	Identifies the type category for the CA
	DateTime EffectiveDate	Date the CA becomes effective
	DateTime EndDate	Date the CA is expired
	Boolean HasPendingApprovalRequest	Indicates if the CA is in a pending approval state
	String Status	Status of the CA (i.e. WIP, active, expired etc.)

<b>Object Name:</b>	<b>GenEdOutcomeDTO</b>	
<b>Fields:</b>	Guid GenEdOutcomeID	WIDS unique id for the Gen Ed Outcome
	String Description	
	String Type	Identifies the type category for the GEO
	DateTime EffectiveDate	Date the GEO becomes effective
	DateTime EndDate	Date the GEO is expired
	Boolean HasPendingApprovalRequest	Indicates if the GEO is in a pending approval state
	String Status	Status of the GEO (i.e. WIP, active, expired etc.)

<b>Object Name:</b>	<b>ProgramOutcomeDTO</b>	
<b>Fields:</b>	Guid ProgramOutcomeID	WIDS unique id for the Gen Ed Outcome
	String Description	
	String Type	Identifies the type category for the program
	String Code	Identifies the code category for the program
	DateTime EffectiveDate	Date the PO becomes effective
	DateTime EndDate	Date the PO is expired
	Boolean HasPendingApprovalRequest	Indicates if the PO is in a pending approval state
	String Status	Status of the PO (i.e. WIP, active, expired etc.)

<b>Object Name:</b>	<b>ExternalStandardSetDTO</b>	
<b>Fields:</b>	Guid ExternalStandardSetID	WIDS unique id for the External Standard Set
	String Title	Title of the set
	String SponsoringOrganization	
	String Description	Description of the set
	String VersionDate	
	String OriginURL	URL for the original source
	String CopyrightInformation	
	DateTime CopyrightDate	
	String ContactName	
	String Notes	
	List<DTO>ExternalStandards	List of target standards

<b>Object Name:</b>	<b>ExternalStandardDTO</b>	
<b>Fields:</b>	Guid ExternalStandardID	WIDS unique id for the External Standard
	Guid ExternalStandardSetRevisionID	WIDS unique id for the associated revision
	String Description	
	Int SortOrder	Order in which the standard displays within the target set.
	Int Level	Level within the target set

<b>Object Name:</b>	<b>ProjectDTO</b>	
<b>Fields:</b>	Guid ProjectID	WIDS unique identifier for the project
	String SchoolSystemID	School system unique id for the project
	Guid? OrgSubUnitID	WIDS unique id for the subunit
	String ProjectType	Identifies project type
	String Title	Project title
	String Number	Project number
	String Description	Project description

	String InstructionalArea	
	String CareerCluster	
	String InstructionalLevel	
	List<DTO>CustomField	See Custom Field DTO for details

<b>Object Name:</b>	<b>ProgramDTO</b>	
<b>Fields:</b>	String ProgramDescription	
	String CIPCode	
	String MissionStatement	
	String AccreditationInfo	
	String ExternalRequirements	
	String EntryRequirements	
	DateTime? FinalApprovalDate	
	String TargetPopulation	
	String IndirectMeasureListFormat	
	String JobTitleListFormat	
	List <DTO> ProgramInfoRevisions	See ProgramInfoRevisionDTO for details
	List <DTO> JobTitles	See JobTitleDTO for details
	List <DTO> IndirectMeasures	See IndirectMeasureDTO for details
	List <DTO> CoreAbilities	See CoreAbilityDTO for details
	List <DTO> GenEdOutcomes	See GenEdOutcomeDTO for details
	List <DTO> ExternalStandardSets	See ExternalStandardSetDTO for details
	List <DTO> Courses	See CourseDTO for details

<b>Object Name:</b>	<b>JobTitleDTO</b>	
<b>Fields:</b>	Guid JobTitleID	WIDS unique id for the job title
	Guid ProgramID	WIDS unique id for the program
	String JobTitleDescription	
	String JobTitleCode	
	String CreatedBy	Userid of the record creator
	DateTime CreatedOn	Datetime stamp of the creation of the record

<b>Object Name:</b>	<b>ProgramIndirectMeasureDTO</b>	
<b>Fields:</b>	Guid ProgramIndirectMeasureID	WIDS unique id for the indirect measure
	Guid ProgramID	WIDS unique id for the program
	String IndirectMeasureDescription	
	String CreatedBy	Userid of the record creator
	DateTime CreatedOn	Datetime stamp of the creation of the record

<b>Object Name:</b>	<b>ProgramInfoRevisionDTO</b>	
<b>Fields:</b>	Guid ProgramInfoRevisionID	WIDS unique id for the info revision ID
	Guid ProgramID	WIDS unique id for the program
	String ProgramNumber	
	String ProgramTitle	
	String ProgramDescription	
	String InstructionalLevel	
	String CareerCluster	
	String CIPCode	
	DateTime? EffectiveDate	Date the Info Revision becomes effective
	DateTime? EndDate	Date the Info Revision is expired
	String CreatedBy	UserId of the record creator
	DateTime CreatedOn	DateTime stamp of the record

## Appendix A – GetUsers API Call Sample

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

```
<ArrayOfUser xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
```

```
xmlns="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Sites"> <User>
```

```
    <Deleted>>false</Deleted>
```

```
    <Department/>
```

```
    <Disabled>>false</Disabled>
```

```
    <EmailAddress>martinsonj@wids.org</EmailAddress>
```

```
    <FirstName>System Admin</FirstName>
```

```
    <LastName>(Organization)</LastName>
```

```
    <ObjectGuidAD i:nil="true"/>
```

```
    <SchoolSystemID i:nil="true"/><UseActiveDirectory>>false</UseActiveDirectory><UserName>Admin1</UserName>
```

```
</User>
```

```
<User>
```

```
    <Deleted>>false</Deleted>
```

```
    <Department i:nil="true"/>
```

```
    <Disabled>>false</Disabled>
```

```
    <EmailAddress>barrk@wids.org</EmailAddress>
```

```
    <FirstName>Karen</FirstName>
```

```
    <LastName>Barr</LastName>
```

```
    <ObjectGuidAD i:nil="true"/>
```

```
    <SchoolSystemID i:nil="true"/>
```

```
    <UseActiveDirectory>>false</UseActiveDirectory>
```

```
    <UserName>barrk</UserName>
```

```
</User>
```

```
<User>
```

```
</User>
```

```
</ArrayOfUser>
```

## Appendix B - GetUnits API Call Sample

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

```
<ArrayOfUnit xmlns:i="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Sites">
```

```
<Unit>
```

```
<Description/>
```

```
<MissionStatement/>
```

```
<Name>Auto Repair</Name>
```

```
<SchoolSystemID>987924</SchoolSystemID>
```

```
<SubUnits/>
```

```
</Unit>
```

```
<Unit>
```

```
<Description/>
```

```
<MissionStatement/>
```

```
<Name>Demo Program and Courses</Name>
```

```
<SchoolSystemID i:nil="true"/>
```

```
<SubUnits>
```

```
<SubUnit>
```

```
<Description/>
```

```
<MissionStatement/>
```

```
<Name>Sample General Education Courses</Name>
```

```
<SchoolSystemID i:nil="true"/>
```

```
<UnitID i:nil="true"/>
```

```
</SubUnit>
```

```
<SubUnit>
```

```
<Description/>
```

```
<MissionStatement/>
```

```
<Name>Sample Program</Name>
```

```
<SchoolSystemID i:nil="true"/>
```

```
<UnitID i:nil="true"/>
```

```

        </SubUnit>
    </SubUnits>
</Unit>
<Unit>
    <Description>This is a test unit to demonstrate Soap services</Description>
    <MissionStatement/>
    <Name>Math</Name>
    <SchoolSystemID>123456</SchoolSystemID>
    <SubUnits/>
</Unit>
<Unit>
    <Description/>
    <MissionStatement/>
    <Name>Nursing</Name>
    <SchoolSystemID>123213</SchoolSystemID>
    <SubUnits/>
</Unit>
<Unit>
    <Description/>
    <MissionStatement/>
    <Name>Projects for Testing</Name>
    <SchoolSystemID i:nil="true"/>
    <SubUnits>
        <SubUnit>
            <Description/>
            <MissionStatement/>
            <Name>Judy's Test Projects</Name>
            <SchoolSystemID i:nil="true"/>
            <UnitID i:nil="true"/>
        </SubUnit>
        <SubUnit>

```



```
        <Description/>
        <MissionStatement/>
        <Name>Terri's Test Projects</Name>
        <SchoolSystemID i:nil="true"/>
        <UnitID i:nil="true"/>
    </SubUnit>
</SubUnits>
</Unit>
<Unit>
    <Description>this is a discription</Description>
    <MissionStatement>this is a discription</MissionStatement>
    <Name>Unit Added from Webinar</Name>
    <SchoolSystemID>65465845</SchoolSystemID>
    <SubUnits>
        <SubUnit>
            <Description/>
            <MissionStatement/>
            <Name>SU 2</Name>
            <SchoolSystemID>654654</SchoolSystemID>
            <UnitID i:nil="true"/>
        </SubUnit>
        <SubUnit>
            <Description/>
            <MissionStatement/>
            <Name>SU 1</Name>
            <SchoolSystemID>42342</SchoolSystemID>
            <UnitID i:nil="true"/>
        </SubUnit>
    </SubUnits>
</Unit>
</ArrayOfUnit>
```

## Appendix C – GetProjects API Call Sample

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

```
<ArrayOfProjectDTO xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://schemas.datacontract.org/2004/07/Wids.ServiceLayer.Services.DTOs">
```

```
<ProjectDTO>
```

```
<CareerCluster>Health Science</CareerCluster>
```

```
<Description>The Dental Assistant Program prepares graduates to work with dentists as they examine and treat patients. Dental Assistants with documented skills also may carry out a variety of laboratory, clinical and office duties. Some dental assistants manage the office and are responsible for patient scheduling and bookkeeping functions. Graduates receive a technical diploma and are eligible to write the certification examination of the Dental Assisting National Board. Most dental assistants work in general or specialized dental offices, either for individual dentists or for groups of dentists. Some dental assistants may choose to work for insurance companies, dental laboratories, or dental supply companies. The dental assistant also may find employment with federal agencies such as the Veterans' Administration, United States Public Health Services, the Armed Forces, or a state, county or city health facility.&nbsp;</Description>
```

```
<EffectiveDate>2012-05-01T00:00:00</EffectiveDate>
```

```
<EndDate i:nil="true"/>
```

```
<HasPendingApprovalRequest>>false</HasPendingApprovalRequest>
```

```
<InstructionalLevel>Technical Diploma</InstructionalLevel>
```

```
<Number>31-508-01</Number>
```

```
<OrgSubUnitID>4266d0a4-8c18-4f2e-8df6-492efca105e1</OrgSubUnitID>
```

```
<ProjectID>89e0dc03-b909-4e63-9903-5430e2d17789</ProjectID>
```

```
<ProjectType>Program</ProjectType>
```

```
<SchoolSystemID i:nil="true"/>
```

```
<Status>Active</Status>
```

```
</ProjectDTO>
```

```
<ProjectDTO>
```

```
<CareerCluster>Health Science</CareerCluster>
```

```
<Description>The associate degree Radiography provides the opportunity to learn the necessary skills to accurately position patients, ensuring that a quality diagnostic image is produced. You will also be educated in anatomy, examination techniques, equipment protocols, radiation safety, radiation protection and basic patient care.</Description>
```

```
<EffectiveDate>2012-04-22T00:00:00</EffectiveDate>
```

```
<EndDate i:nil="true"/>
```

```
<HasPendingApprovalRequest>>false</HasPendingApprovalRequest>
```

```
<InstructionalLevel>A.A.S. - Associate in Applied Science </InstructionalLevel>
```

<Number>DEMO-PROGRAM</Number>

<OrgSubUnitID>54fc83f9-05d7-48d2-adab-266c1abb6922</OrgSubUnitID>

<ProjectID>4656fc1b-badb-4f9e-a2f0-45ce72ff7e75</ProjectID>

<ProjectType>Program</ProjectType>

<SchoolSystemID i:nil="true"/>

<Status>Active</Status>

</ProjectDTO>

</ArrayOfProjectDTO>

## Appendix D – Get Course API Call Sample

```
<?xml version="1.0"?>
<Course xmlns:i="http://www.w3.org/2001/XMLSchema-instance"
xmlns="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Courses"> <AlternateTitle/>
<CareerCluster/>
<CoreAbilities xmlns:a="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">
  <a:CoreAbility>
    <a:CoreAbilityID>1734cbd1-0fbf-435b-8878-20cf1fe327b2</a:CoreAbilityID>
    <a:Description>Work effectively and cooperatively in a culturally diverse environment</a:Description>
    <a:EffectiveDate i:nil="true"/>
    <a:EndDate i:nil="true"/>
    <a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>
    <a:Type/>
  </a:CoreAbility>
  <a:CoreAbility>
    <a:CoreAbilityID>d953a200-d4f5-424a-8bb9-9db2d37cdfcb</a:CoreAbilityID>
    <a:Description>Allocate money</a:Description>
    <a:EffectiveDate i:nil="true"/>
    <a:EndDate i:nil="true"/>
    <a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>
    <a:Type/>
  </a:CoreAbility>
  <a:CoreAbility>
    <a:CoreAbilityID>becd39e4-2f23-4e08-9100-a71fc29e2dce</a:CoreAbilityID>
    <a:Description>Use prior knowledge and content area information to reason, apply concepts, and make
critical judgments</a:Description>
    <a:EffectiveDate i:nil="true"/>
    <a:EndDate i:nil="true"/>
    <a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>
    <a:Type/>
  </a:CoreAbility>
</a:CoreAbilities>
</Course>
```

</CoreAbilities>

<CourseBibliographies>

<CourseBibliography>

<BibliographyCitation/>

<BibliographyDetail>bib&nbsp;  </BibliographyDetail>

<CourseBibliographyID>7845b327-33ee-4f61-90fd-4ae582e7ed2e</CourseBibliographyID>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<SortOrder>0</SortOrder>

</CourseBibliography>

</CourseBibliographies>

<CourseCompetencies>

<CourseCompetency>

<CompetencyDescription>Organize and maintain information</CompetencyDescription>

<CourseCompetencyID>abf7dcd9-1c92-46b5-be90-0f8240039298</CourseCompetencyID>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<CreatedBy>System Admin (Organization) (Admin1)</CreatedBy>

<CreatedOn>2012-03-20T08:26:39.4</CreatedOn>

<CriteriaLeadIn/>

<CriteriaListFormat/>

<Domain/>

<EditedBy>Terri Johnson (johnsont)</EditedBy>

<EditedOn>2012-07-11T09:13:54.7</EditedOn>

<EffectiveDate i:nil="true"/>

<EndDate i:nil="true"/> <Level/>

<ObjectiveListFormat/>

<SortOrder>2</SortOrder>

<StategyListFormat/>

<StrategyLeadIn/>

</CourseCompetency>

<CourseCompetency>

<CompetencyDescription>Monitor and correct performance of a system</CompetencyDescription>

<CourseCompetencyID>fb4a4075-9be4-4ede-b563-63dc8e80a546</CourseCompetencyID>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<CreatedBy>System Admin (Organization) (Admin1)</CreatedBy>

<CreatedOn>2012-03-20T08:26:39.4</CreatedOn>

<CriteriaLeadIn/>

<CriteriaListFormat/>

<Domain/>

<EditedBy>System Admin (Organization) (Admin1)</EditedBy>

<EditedOn>2012-04-12T15:23:00.49</EditedOn>

<EffectiveDate>2012-04-04T00:00:00</EffectiveDate>

<EndDate>2012-04-09T00:00:00</EndDate>

<Level/><ObjectiveListFormat/>

<SortOrder>3</SortOrder>

<StategyListFormat/>

<StrategyLeadIn/>

</CourseCompetency>

</CourseCompetencies>

<CourseCustomFields i:nil="true"/>

<CourseDescription>First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it.</CourseDescription>

<CourseGoals/>

<CourseGuidelines/>

<CourseInfoRevisions>

<CourseInfoRevision>

<AlternateTitle/>

<CareerCluster/>

<CourseDescription>First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it.</CourseDescription>

<CourseInfoRevisionID>dbaf7875-020a-4aed-bf47-0c23e7567124</CourseInfoRevisionID>

<CourseNumber>SCI300</CourseNumber>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<CourseTitle>SAMPLE: Anatomy and Physiology 1</CourseTitle>

<EffectiveDate>2011-07-22T00:00:00</EffectiveDate>

<EndDate>2012-06-04T17:32:29.88</EndDate>

<InstructionalLevel/>

<TotalCredits>4.00</TotalCredits>

<TotalHours i:nil="true"/>

</CourseInfoRevision>

<CourseInfoRevision>

<AlternateTitle/>

<CareerCluster>Human Services</CareerCluster>

<CourseDescription>First semester of a two-semester sequence dealing with the structure and function of the human body and mechanisms for maintaining homeostasis within it.</CourseDescription>

<CourseInfoRevisionID>027daefa-d494-43f4-a62f-1ce711628399</CourseInfoRevisionID>

<CourseNumber>SCI301</CourseNumber>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<CourseTitle>SAMPLE: Anatomy and Physiology 1</CourseTitle>

<EffectiveDate i:nil="true"/>

<EndDate i:nil="true"/>

<InstructionalLevel>A.A.S. - Associate in Applied Science </InstructionalLevel>

<TotalCredits>4.00</TotalCredits>

<TotalHours i:nil="true"/>

</CourseInfoRevision>

</CourseInfoRevisions>

<CourseLearnerSupplies>

<CourseLearnerSupply>

<CourseLearnerSupplyID>7eab163c-1b02-4a79-86eb-23ebd97cb068</CourseLearnerSupplyID>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<LearnerSupplyCitation>LS&nbsp;</LearnerSupplyCitation>

<SortOrder>0</SortOrder>

</CourseLearnerSupply>

</CourseLearnerSupplies>

<CoursePrerequisites>

<CoursePrerequisite>

<CoursePrerequisiteID>137993f5-1274-4c3a-acb8-60f6a3d9f148</CoursePrerequisiteID>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<PrerequisiteDescription>test</PrerequisiteDescription>

<PrerequisiteType>Prerequisite</PrerequisiteType>

<SortOrder>0</SortOrder>

</CoursePrerequisite>

</CoursePrerequisites>

<CourseTextbooks>

<CourseTextbook>

<CourseRevisionID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</CourseRevisionID>

<CourseTextbookID>1bde8e4c-fca2-4d37-a602-94346ed2766b</CourseTextbookID>

<SchoolSystemID i:nil="true"/>

<SortOrder>0</SortOrder>

<TextbookCitation/><TextbookDetail>textbook&nbsp;</TextbookDetail>

</CourseTextbook>

</CourseTextbooks>

<Description i:nil="true"/>

<ExternalStandardSets xmlns:a="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">

<a:ExternalStandardSet>

<a:ContactName i:nil="true"/>

<a:CopyrightDate i:nil="true"/><a:CopyrightInformation>© 2010, States' Career Clusters Initiative</a:CopyrightInformation>

<a:Description>&ldquo;The following Cluster (Foundation) Knowledge and Skill Chart provides statements that apply to all careers in the Arts, A/V Technology and Communications Cluster. Persons preparing for careers in the Arts, A/V Technology and Communications Cluster should be able to demonstrate these skills in addition to those found on the Essential Knowledge and Skills Chart. The Pathway Knowledge and Skill Charts are available in separate documents.&rdquo; NASDCTEc<strong></strong></a:Description>

<a:ExternalStandardSetID>9076c931-f76a-47fc-8a59-9b018b814589</a:ExternalStandardSetID>

<a:Notes><a name="OLE\_LINK2"></a><a name="OLE\_LINK1"><span style="color: #000000;">Standards include knowledge and skill items. The &ldquo;sample indicators&rdquo; are not included in the list. Users may select target standard subsets for a specific project from any of the levels.</span></a></a:Notes>

<a:OriginURL i:nil="true"/>

<a:SponsoringOrganization>http://www.careertech.org/careerhttp://www.careertech.org/career-clusters/resources/clusters/arts.html%3c/a:SponsoringOrganizationclusters/resources/clusters/arts.html</a:SponsoringOrganization>



<a:Title>Arts, A/V Technology and Communications-Career Cluster Foundation</a:Title>

<a:VersionDate>October 1, 2008</a:VersionDate>

</a:ExternalStandardSet>

<a:ExternalStandardSet>

<a:ContactName i:nil="true"/>

<a:CopyrightDate i:nil="true"/><a:CopyrightInformation>© 2010, States' Career Clusters Initiative</a:CopyrightInformation>

<a:Description><p style="line-height: 13.7pt; margin: 0in 0in 6pt;">The following Cluster (Foundation) Knowledge and Skill list provides statements that apply to all careers in the Architecture and Construction Cluster. Persons preparing for careers in the Architecture and Construction Cluster should be able to demonstrate these skills in addition to those found on the Essential Knowledge and Skills Chart. The Pathway Knowledge and Skill Charts are available in separate standards.</p></a:Description>

<a:ExternalStandardSetID>ab328f12-4184-483a-8cbd-3cea5eeecf9c</a:ExternalStandardSetID>

<a:Notes>Standards include knowledge and skill items and their &ldquo;sample indicators.&rdquo; Sample indicators are those items ending in a lower case letter (a, b, c, etc.). Users may select target standard subsets for a specific project from any of the levels.</a:Notes>

<a:OriginURL i:nil="true"/>

<a:SponsoringOrganization><http://www.careertech.org/resources/clusters/knowledge><http://www.careertech.org/resources/clusters/knowledge-skills.html>&#3c/a:SponsoringOrganizationskills.html</a:SponsoringOrganization>

<a:Title>Architecture and Construction Career Cluster Foundations</a:Title>

<a:VersionDate>10/1/2008</a:VersionDate>

</a:ExternalStandardSet>

</ExternalStandardSets>

<GenEdOutcomes xmlns:a="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">

<a:GenEdOutcome>

<a:Description>Value individual and group differences (e.g. race, gender, class), traditions, and values.</a:Description>

<a:EffectiveDate>2012-07-11T00:00:00</a:EffectiveDate>

<a:EndDate i:nil="true"/>

<a:GenEdOutcomeID>1583277e-0b9a-4341-925b-fc2846e6c7e3</a:GenEdOutcomeID>

<a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>

<a:Type/>

</a:GenEdOutcome>

<a:GenEdOutcome>

<a:Description>Use the English language effectively to read, write, speak and listen critically.</a:Description>

```
<a:EffectiveDate i:nil="true"/>
<a:EndDate i:nil="true"/>
<a:GenEdOutcomeID>7b5d8de3-72f2-49f9-8362-e286d5848b5b</a:GenEdOutcomeID>
<a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>
<a:Type/>
</a:GenEdOutcome>
</GenEdOutcomes>
<GradingRationale>asdfasfasdf</GradingRationale>
<InstructionalLevel/>
<Number>SCI300</Number>
<OrgSubUnitID>2603b2ec-4028-4c83-bcd6-03d3104dd9f0</OrgSubUnitID>
<ProgramOutcomes xmlns:a="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects"/>
<ProjectID>04b3f45b-7786-4a5b-87fb-e2f45a60955b</ProjectID>
<SchoolSystemID i:nil="true"/>
<TargetPopulation>lkjl;kjl;kjkl;j;lk</TargetPopulation>
<TotalCredits>4.00</TotalCredits>
<TotalHours>0</TotalHours>
</Course>
```

## Appendix E – Get Program API Call Sample

Program xmlns:i="http://www.w3.org/2001/XMLSchema-instance"  
xmlns="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Programs">

<AccreditationInfo>This program is accredited by the American Dental Association.</AccreditationInfo>

<CIPCode/>

<CareerCluster/>

<CoreAbilities xmlns:a="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">

<a:CoreAbility><a:CoreAbilityID>1734cbd1-0fbf-435b-8878-20cf1fe327b2</a:CoreAbilityID>

<a:Description>Work effectively and cooperatively in a culturally diverse environment</a:Description>

<a:EffectiveDate>2012-03-06T00:00:00</a:EffectiveDate>

<a:EndDate i:nil="true"/>

<a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>

<a:Type/>

</a:CoreAbility>

<a:CoreAbility><a:CoreAbilityID>a8d45272-df92-43d2-b0b2-67aa7ee4bee9</a:CoreAbilityID>

<a:Description>Interpret and communicate information</a:Description>

<a:EffectiveDate>2012-03-06T00:00:00</a:EffectiveDate>

<a:EndDate i:nil="true"/>

<a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>

<a:Type/>

</a:CoreAbility>

<a:CoreAbility><a:CoreAbilityID>ba322c82-ee72-4d40-917b-d12ece02ae2f</a:CoreAbilityID>

<a:Description>Acquire and evaluate information and edited this core ability</a:Description>

<a:EffectiveDate>2012-03-12T00:00:00</a:EffectiveDate>

<a:EndDate i:nil="true"/>

<a:HasPendingApprovalRequest>>false</a:HasPendingApprovalRequest>

<a:Type>Apprenticeship</a:Type>

</CoreAbilities>

<Courses xmlns:a="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Courses">

<a:Course>

<a:AlternateTitle/>

<a:CareerCluster/>

<a:CoreAbilities

xmlns:b="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">

<b:CoreAbility>

<b:CoreAbilityID>d953a200-d4f5-424a-8bb9-9db2d37cdfeb</b:CoreAbilityID>

<b>Description>Allocate money</b>Description>

<b:EffectiveDate i:nil="true"/>

<b:EndDate i:nil="true"/>

<b:HasPendingApprovalRequest>>false</b:HasPendingApprovalRequest>

<b:Type/>

</b:CoreAbility>

<b:CoreAbility>

<b:CoreAbilityID>3c7f3942-11f0-45cb-a6eb-82f8968a2f79</b:CoreAbilityID>

<b>Description>Demonstrate integrity and honesty</b>Description>

<b:EffectiveDate i:nil="true"/>

<b:EndDate i:nil="true"/>

<b:HasPendingApprovalRequest>>false</b:HasPendingApprovalRequest>

<b:Type/>

</b:CoreAbility>

</a:CoreAbilities>

<a:CourseBibliographies/>

<a:CourseCompetencies>

<a:CourseCompetency>

<a:CompetencyDescription>Evaluate the impact of global/international changes (environment, technology, population, etc.) on society</a:CompetencyDescription>

<a:CourseCompetencyID>cca57fd2-fea5-4643-b909-01fab8f59317</a:CourseCompetencyID>

<a:CourseRevisionID>f78070ac-36c5-464a-af3f-ff7c02d0b0b4</a:CourseRevisionID>

<a:CreatedBy>Terri Johnson (johnsont)</a:CreatedBy>

<a:CreatedOn>2012-07-11T16:10:44.477</a:CreatedOn>

<a:CriteriaLeadIn/>

<a:CriteriaListFormat/>

<a:Domain>Cognitive</a:Domain>

<a:EditedBy>Terri Johnson (johnsont)</a:EditedBy>

<a:EditedOn>2012-08-06T10:38:50.583</a:EditedOn>

<a:EffectiveDate>2012-08-06T00:00:00</a:EffectiveDate>

<a:EndDate i:nil="true"/>

<a:Level>Evaluating</a:Level>

<a:ObjectiveListFormat/>

<a:SortOrder>17</a:SortOrder>

<a:StrategyListFormat/><a:StrategyLeadIn/>

</a:CourseCompetency>

</a:CourseCompetencies>

<a:CourseCustomFields i:nil="true"/>

<a:CourseDescription>Prepares dental assistant students to chart oral cavity structures, dental pathology, and restorations and to assist a dentist with basic dental procedures including examinations, pain control, amalgam restoration, and cosmetic restoration. Students will also develop the ability to educate patients about preventive dentistry, brushing and flossing techniques, and dental procedures, using lay terminology. Throughout the course, students will apply decoding strategies to the correct use and interpretation of dental terminology.</a:CourseDescription>

<a:CourseGoals/>

<a:CourseGuidelines/>

<a:CourseInfoRevisions>

<a:CourseInfoRevision>

<a:AlternateTitle/>

<a:CareerCluster/>

<a:CourseDescription>Prepares dental assistant students to chart oral cavity structures, dental pathology, and restorations and to assist a dentist with basic dental procedures including examinations, pain control, amalgam restoration, and cosmetic restoration. Students will also develop the ability to educate patients about preventive dentistry, brushing and flossing techniques, and dental procedures, using lay terminology. Throughout the course, students will apply decoding strategies to the correct use and interpretation of dental terminology.</a:CourseDescription>

<a:CourseInfoRevisionID>796939fe-efac-4df2-857b-6738232e3e08</a:CourseInfoRevisionID>

<a:CourseNumber>31-508-312</a:CourseNumber>

<a:CourseRevisionID>f78070ac-36c5-464a-af3f-ff7c02d0b0b4</a:CourseRevisionID>

<a:CourseTitle>Dental Chairside</a:CourseTitle>

<a:EffectiveDate>2012-08-06T00:00:00</a:EffectiveDate>

<a:EndDate i:nil="true"/>

```

<a:InstructionalLevel/>

<a:TotalCredits>2.00</a:TotalCredits>

<a:TotalHours i:nil="true"/>

</a:CourseInfoRevision>

</a:CourseInfoRevisions>

<a:CourseLearnerSupplies/>

<a:CoursePrerequisites/>

<a:CourseTextbooks/>

<a:Description i:nil="true"/>

<a:ExternalStandardSets
xmlns:b="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">

  <b:ExternalStandardSet>

    <b:ContactName i:nil="true"/>

    <b:CopyrightDate i:nil="true"/>

    <b:CopyrightInformation>© 2010, States' Career Clusters Initiative</b:CopyrightInformation>

    <b>Description><p>The following Cluster (Foundation) Knowledge and Skill Chart provides
statements that apply to all careers in the Health Science Cluster. Persons preparing for careers in
the Health Science Cluster should be able to demonstrate these skills in addition to those found
on the Essential Knowledge and Skills Chart. The Pathway Knowledge and Skill Charts are available
in separate documents.</p></b>Description>

    <b:ExternalStandardSetID>caf1b259-9f37-454d-a2d0-6277b14e9c34</b:ExternalStandardSetID>

    <b:Notes><p><a name="OLE_LINK2"></a><a name="OLE_LINK1">Standards include knowledge
and skill items and their &ldquo;sample indicators.&rdquo; Sample indicators are those items
ending in a lower case letter (a, b, c, etc.). Users may select target standard subsets for a specific
project from any of the levels.</a></p></b:Notes>

    <b:OriginURL i:nil="true"/>

    <b:SponsoringOrganization>http://www.careertech.org/careerhttp://www.careertech.org/career-
clusters/resources/clusters/health.html%3c/b:SponsoringOrganizationclusters/resources/clusters/health.h
tml</b:SponsoringOrganization>

    <b>Title>Health Science Career Clusters</b>Title>

    <b:VersionDate>October 6, 2008</b:VersionDate>

  </b:ExternalStandardSet>

</a:ExternalStandardSets>

<a:GenEdOutcomes xmlns:b="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">

  <b:GenEdOutcome>

```

```

    <b>Description>Value individual and group differences (e.g. race, gender, class), traditions, and
    values.</b>Description>

    <b:EffectiveDate>2012-07-11T00:00:00</b:EffectiveDate>

    <b:EndDate i:nil="true"/>

    <b:GenEdOutcomeID>1583277e-0b9a-4341-925b-fc2846e6c7e3</b:GenEdOutcomeID>

    <b:HasPendingApprovalRequest>>false</b:HasPendingApprovalRequest>

    <b.Type/>

  </b:GenEdOutcome>

</a:GenEdOutcomes>

<a:GradingRationale/>

<a:InstructionalLevel/>

<a:Number>31-508-312</a:Number>

<a:OrgSubUnitID>4266d0a4-8c18-4f2e-8df6-492efca105e1</a:OrgSubUnitID>

<a:ProgramOutcomes
  xmlns:b="http://schemas.datacontract.org/2004/07/Wids.Web.Services.DTOs.Output.Projects">
  <b:ProgramOutcome>
    <b:Code/>
    <b>Description>Manage infection and hazard control</b>Description>
    <b:EffectiveDate>2012-05-01T00:00:00</b:EffectiveDate>
    <b:EndDate i:nil="true"/>
    <b:HasPendingApprovalRequest>>false</b:HasPendingApprovalRequest>
    <b:ProgramOutcomeID>c21df82c-dc69-4940-8b41-57dc4282112c</b:ProgramOutcomeID>
    <b.Type/>
  </b:ProgramOutcome>
  <b:ProgramOutcome>
    <b:Code/>
    <b>Description>Perform clinical supportive treatments</b>Description>
    <b:EffectiveDate>2012-05-01T00:00:00</b:EffectiveDate>
    <b:EndDate i:nil="true"/>
    <b:HasPendingApprovalRequest>>false</b:HasPendingApprovalRequest>
    <b:ProgramOutcomeID>4709520f-dec5-492d-8285-2ac987b072a6</b:ProgramOutcomeID>
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<EntryRequirements><div><ul><li>Students, faculty, and appropriate support staff must be encouraged to be immunized against and/or tested for infectious diseases, such as mumps, measles, rubella, hepatitis B and tuberculosis prior to contact with patients and/or infectious objects or materials, in an effort to minimize the risk to patients and dental personnel.</li><li>Students must have earned a high school diploma or GED certificate or be currently enrolled in a secondary Youth Options program.</li><li>Students must meet individual college academic admission requirements that are documented and applied fairly to all program applicants.</li><li>Students must be certified in health care provider CPR before beginning Dental Assistant clinical course work.</li></ul></div><div><br /></div></EntryRequirements>

<ExternalRequirements><div>College - Attain or maintain program accreditation by the American Dental Association's Commission on Dental Accreditation (optional).</div><div>Graduates - Successfully complete the Dental Assistant Certification Exam to become Dental Assisting National Board certified (optional).&nbsp;</div><div>Students - Complete requirements for current certification in health care provider cardiopulmonary resuscitation prior to participation in clinical experience.</div><div><br /></div></ExternalRequirements>

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<a:ExternalStandardSet>

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<a:CopyrightInformation>© 2010, States' Career Clusters Initiative</a:CopyrightInformation>

<a:Description><p>The following Cluster (Foundation) Knowledge and Skill Chart provides statements that apply to all careers in the Health Science Cluster. Persons preparing for careers in the Health Science Cluster should be able to demonstrate these skills in addition to those found on the Essential Knowledge and Skills Chart. The Pathway Knowledge and Skill Charts are available in separate documents.</p></a:Description>

<a:ExternalStandardSetID>caf1b259-9f37-454d-a2d0-6277b14e9c34</a:ExternalStandardSetID>

<a:Notes><p><a name="OLE\_LINK2"></a><a name="OLE\_LINK1">Standards include knowledge and skill items and their "sample indicators." Sample indicators are those items ending in a lower case letter (a, b, c, etc.). Users may select target standard subsets for a specific project from any of the levels.</a></p></a:Notes>

<a:OriginURL><http://www.careertech.org/career-clusters/resources/clusters/health.html></a:OriginURL>

<a:SponsoringOrganization>National Association of State Directors of Career Technical Education



Consortium </a:SponsoringOrganization>

<a:Title>Health Science Career Clusters</a:Title>

<a:VersionDate>October 6, 2008</a:VersionDate>

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<a:EffectiveDate>2012-07-11T00:00:00</a:EffectiveDate>

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<CreatedBy>Judy Neill (neillj)</CreatedBy>

<CreatedOn>2012-03-20T11:00:35.41</CreatedOn>

<IndirectMeasureDescription>5. Exit interviews are performed with students who withdraw from the program prior to completion, and results are used to inform continuing improvement</IndirectMeasureDescription>

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<ProgramIndirectMeasureID>4265cbf7-74ef-4593-acda-25462ff80af4</ProgramIndirectMeasureID>

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<CreatedBy>Judy Neill (neillj)</CreatedBy>

<CreatedOn>2012-03-20T11:00:35.41</CreatedOn>

<IndirectMeasureDescription>4. Meets college expectation for graduate satisfaction</IndirectMeasureDescription>

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<ProgramIndirectMeasureID>0e756b01-0d11-4d3c-ba32-31bce7624784</ProgramIndirectMeasureID>

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<CreatedBy>Judy Neill (neillj)</CreatedBy>

<CreatedOn>2012-03-20T11:00:35.41</CreatedOn>

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<CreatedOn>2012-03-20T10:57:43.977</CreatedOn>

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<MissionStatement>The mission of the Dental Assistant Program is to prepare graduates to succeed in technical level dental health careers.</MissionStatement>

<Number>31-508-01</Number>

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<CareerCluster>Health Science</CareerCluster>

<CreatedBy>Judy Neill (neillj)</CreatedBy>

<CreatedOn>2012-03-20T10:53:09.747</CreatedOn>

<EffectiveDate>2012-05-01T00:00:00</EffectiveDate>

<EndDate i:nil="true"/>

<InstructionalLevel>Technical Diploma</InstructionalLevel>

<ProgramDescription>The Dental Assistant Program prepares graduates to work with dentists as they examine and treat patients. Dental Assistants with documented skills also may carry out a variety of laboratory, clinical and office duties. Some dental assistants manage the office and are responsible for patient scheduling and bookkeeping functions. Graduates receive a technical diploma and are eligible to write the certification examination of the Dental Assisting National Board. Most dental assistants work in general or specialized dental offices, either for individual dentists or for groups of dentists. Some dental assistants may choose to work for insurance companies, dental laboratories, or dental supply companies. The dental assistant also may find employment with federal agencies such as the Veterans' Administration, United States Public Health Services, the Armed Forces, or a state, county or city health facility.&nbsp;</ProgramDescription>

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<ProgramInfoRevisionID>e716ca0e-efc9-4631-8c33-28eea6ca5674</ProgramInfoRevisionID>

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<SchoolSystemID i:nil="true"/>

<TargetPopulation><div>Individuals who are employed or hope to be employed as an assistant in a dental office, clinic, laboratory, dental supply company, insurance company, or government agencies that provide dental health care.</div><div><br /></div><div>Individuals with the following abilities are most likely to be successful dental assistants:</div><div>ArmHand Steadiness - The ability to keep the hand and arm steady while making an arm movement or while holding the arm and hand in one position&nbsp;</div><div>Near Vision - The ability to see details of objects at a close range (within a few feet of the observer)&nbsp;</div><div>Oral Comprehension - The ability to understand and express information and ideas presented through spoken words and sentences&nbsp;</div><div>Finger Dexterity - The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects&nbsp;</div><div>Control Precision - The ability to quickly and repeatedly make precise adjustments in moving the controls of a machine or vehicle to exact positions&nbsp;</div><div><br /></div><div>Dentists seek dental assistants who are reliable, can work well with others, and have good manual dexterity.</div><div><br /></div></TargetPopulation> </Program>