Program and Curriculum Approval System

University of Minnesota

March, 2007

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What is PCAS and what will it do?

PCAS was developed to help the University meet three needs:

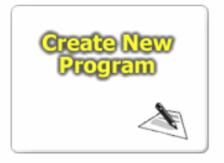
A database of program requirements for undergraduate, graduate, and certificate programs

An approval system for new and changed programs

A resource for our Grad Planner application

Program & Curriculum Approval Crookston - Home

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Database

- A repository of current, accurate information about the requirements of all majors, minors, and certificate programs on all campuses of the University: the "source of truth"
- The source that informs both the online catalog and our degree audit system (DARwin/APAS)

Database

Features of this database:

- Dynamic link with ECAS course database
- Always current and accurate
- Archives past versions of programs
- Can be used to generate data warehouse reports
- Direct feed to online catalog

Program & Curriculum Approval Twin Cities - Search

Hom

Instructions

To access a program or proposal, complete any relevant search criteria below, then click "Go". Provide as much informat possible, especially the title if available, to refine your results.

Program title (long)	environ	
College	All	Career All
Approval status	All	
Terms available	All to All	
	Go Reset	

	Environmental Design B.E.D. Program: <u>View</u>	Fall 2005	Arch & Landscape Arch, Coll of	Undergraduate	Completely Approved
1	Environmental Design B.E.D. Proposal: <u>View</u> <u>Edit</u>	Spring 2007	Design, Coll of	Undergraduate	Proposal Not Submitted
	Environmental Horticulture B.S. Program: <u>View</u>	Fall 2005	Agric, Food, & Envir Sci, Coll	Undergraduate	Completely Approved
man and a second	Environmental Horticulture B.S. Program: <u>View</u>	Fall 2006	Food, Agri & Nat Res Sci, Coll	Undergraduate	Completely Approved
1	Environmental Horticulture B.S. Proposal: <u>View</u>	Spring 2007	Food, Agri & Nat Res Sci, Coll	Undergraduate	Waiting for Catalog Review
man and and and and and and and and and a	Environmental Science B.S. Program: <u>View</u> <u>Update</u>	Fall 2005	Agric, Food, & Envir Sci, Coll	Undergraduate	Completely Approved
	Environmental Science B.S. Program (current): View Reactivate	Spring 2006	Agric, Food, & Envir Sci, Coll	Undergraduate	Completely Approved
and the second s	Environmental Sciences, Policy and Management B.S. Program: <u>View</u> <u>Update</u>	Fall 2006	Food, Agri & Nat Res Sci, Coll	Undergraduate	Completely Approved
######################################	Environmental Sciences, Policy and Management B.S. Program (current): View Update Discontinue	Spring 2007	Food, Agri & Nat Res Sci, Coll	Undergraduate	Completely Approved
TE SECOND	Food Systems and the Environment Minor Program: <u>View</u> <u>Update</u>	Fall 2005	Agric, Food, & Envir Sci, Coll	Undergraduate	Completely Approved

One Stop | Directories | Search U of M

University Catalogs

Search

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University Cataloas

Courses

Majors & Minors

Policies & General Information

Faculty & Administration

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Catalog PDF Archives

Frequently Asked

Environmental Horticulture B.S.

Horticultural Science

College of Food, Agricultural and Natural Resource Sciences

- Requirements for this program are current for Fall 2006.
- . Required credits to graduate with this degree: 120.
- Required credits within the major: 49.
- Degree: Bachelor of Science.

The environmental horticulture major educates and prepares students in all phases of horticulture: crop and plant production; education (botanic gardens and arboreta); service oriented activities (landscaping and landscape maintenance); plant use and function (design, reclamation, and restoration); and recreation (golf courses and parks). Students gain experience in the use of plants to alter environments, restore damaged landscapes, improve the health and well-being of individuals, educate people about science and agriculture, improve community environments, and provide recreational and practical benefits to the public.

Students choose either a business or science option. Landscape design, a joint offering with the College of Design (CDES), combines architecture and landscape architecture courses available in CDES with the plant-based design courses available in CFANS.

Admission Requirements

More Program Views

View college catalog (s):

 College of Food. Agricultural and Natural Resource Sciences

View sample plan(s):

- Floriculture/Nursery Production (Business Option)
- Individualized Program (Business Option)
- Landscape Design (Business Option)
- Landscape Implementation and Management (Business Option)
- Turfgrass Science (Business Option)

(opens a new window)

Contact Us

Related Links

College of Food, Agricultural and Natural Resource Sciences

TC Undergraduate Admissions

TC Undergraduate Application

One Stop for tuition, course registration, financial aid, academic calendars, and more

General Requirements

All students are required to complete general University and college requirements including writing and liberal education courses. For more information about University-wide requirements, see the <u>liberal education</u> requirements.

Recommended freshman writing course(s) for this program: RHET 1101

Program Requirements

Applied courses in horticultural science, soil science, entomology, plant pathology, and applied economics vary depending on program. All required courses must be taken A-F, and students must earn a grade of at least C-.

Foundation Courses

APEC 1101 - Principles of Microeconomics, SSCI (3.0 cr)

BIOL 1009 - General Biology, BIOL SCI/L (4.0 cr)

RHET 1223 - Oral Presentations in Professional Settings (3.0 cr)

CHEM 1011 - Introductory Chemistry: Lecture and Laboratory, PHYS SCI/L (4.0 cr)

or <u>CHEM 1021</u> - Chemical Principles I, ENVT, PHYS SCI/L (4.0 cr) <u>MATH 1031</u> - College Algebra and Probability, MATH (3.0 cr) or <u>MATH 1142</u> - Short Calculus, MATH (4.0 cr)

Professional Courses

BIOL 3002 - Plant Biology: Function (2.0 cr)
HORT 1001 - Plant Propagation, BIOL SCI/L (4.0 cr)
HORT 1015 - Woody and Herbaceous Plants (4.0 cr)
HORT 3002W - Greenhouse Management, WI (3.0 cr)

HORT 3005 - Environmental Effects on Horticultural Crops (2.0 cr)

HORT 4096 - Professional Experience Program: Internship (1.0-3.0 cr)
PLPA 2001 - Introductory Plant Pathology (3.0 cr)

SOTI 2125 - Basic Soil Science FNVT (4.0 cr)

DATABASE: The ECAS-PCAS Link

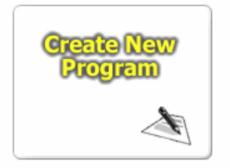
- PCAS draws interactively from the ECAS course database, linked through a course identification number
- When you update a course in ECAS, that course is automatically pulled into PCAS for the correct date

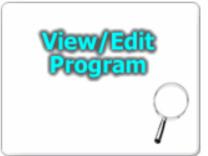
Approval System

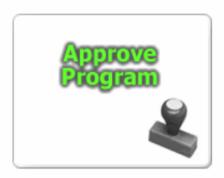
- PCAS replaces a paper-based approval process for new and changed degree programs, majors, and minors.
- New and changed programs requiring Dean, Chancellor, Graduate School, AHC, Provost, or Board of Regents approval are managed through this web-based process.

Program & Curriculum Approval Crookston - Home

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Program & Curriculum Approval Approver Lists

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Instructions

The program proposals awaiting your approval are listed below. If you are authorized to approve at more than one level, the proposals will be grouped into multiple lists, each corresponding with an approval level.

Program Proposals Awaiting Your Approval (118 total)

Degree-Granting College level proposals

- AHC IT CLA Degree Test #1 20050316 2
- AHC IT CLA Degree Test #1 2005046 5
- AHC IT CLA Degree Test #2 20050322 3
- AHC IT Degree CLA Approval Test #1 20050322 3

Return to top of Admission Requirements

Program Requirements

Hide this section

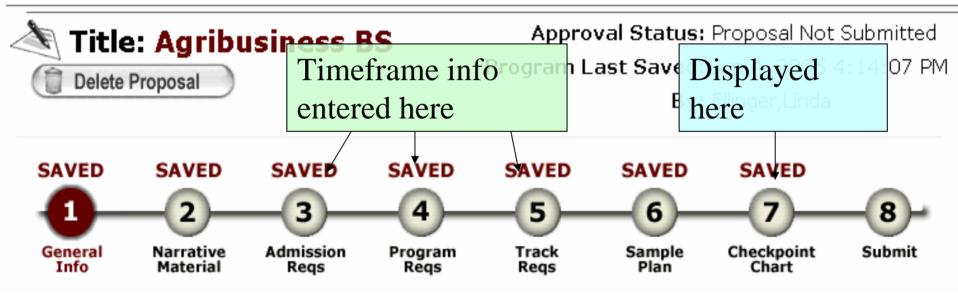
Program length in credits:	42 to 84 credit(s)	<no change=""></no>
Major length in credits:	13 to 21 credit(s)	13 to 13 credit(s)
Number of semesters of a second language that are required:	2	<no change=""></no>
Type of second language required:	Specific Second Language(s): German, Latin	<no change=""></no>
Other requirements:	Other requirements	<no change=""></no>
Required course(s):	Course Group 1 Course Group Requirements/Description • Take ECON 3031 - History of Economic Thought, LE CAT7 (3.0cr) • and Linda1_20050518_1_OTHRC	Course Group 1 Course Group Requirements/Description • Take ECON 3031 - History of Economic Thought, LE CAT7 (3.0cr)

Resource for Grad Planner

PCAS includes time-based data about program sequencing (i.e., the appropriate timing of course-taking for four-year graduation) that supports the Grad Planner application.

Program & Curriculum Approval

General Information Home | Search | View This Step | Log

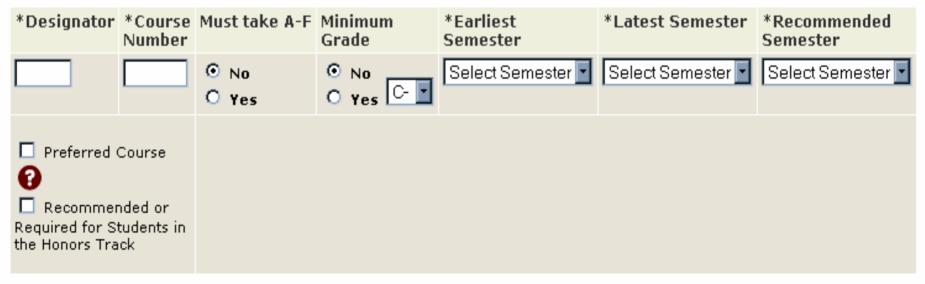


To add another course of the same type click "Save & Add Another +". If you want to add courses of a different type, or when you have finished click "Save & Continue >".

Step 3 - Admission Requirements : Create Course

Designator with Course Number

*=Required field



Save & Add Another +

Save & Continue >

Cancel

Potential term for fulfilling the requirement Recommended term for fulfilling the requirement		Year 1		Year 2		Year 3		Yea	ar 4
Checkpoint requirements	Requirement definitions	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
General requirement Freshman	checkpoints (complete all) Complete a freshman								
Composition	composition course.								
 Program requirement 	checkpoints (complete all)								
Physical Science (MATH 1271 or MATH 1281) Requirements									
Physical Science and Mathematics Requirements	CHEM 1021	+							
Physical Science	CHEM 1022		4						

_			
LO	lose.	wind	10 W

GEO 2201

Title: Geodynamics I: The Solid Earth

Description: Dynamics of solid Earth, particularly tectonic system.

Séismology, internal structure of Earth. Earth's gravity, magnetic fields. Paleomagnetism, global plate tectonics,

tectonic systems. Field trip.

Prereq: & Phys 1301 or #

LibEd:

Terms Offered: fall, every year

Credits: 3

Campus: Twin Cities

When Should I Take This Course?

Geophysics B.S.Geop.



Key: Recommended term for timely graduation

🔀 Best possible term

Plan For:

Plan It!

HOW PCAS WORKS

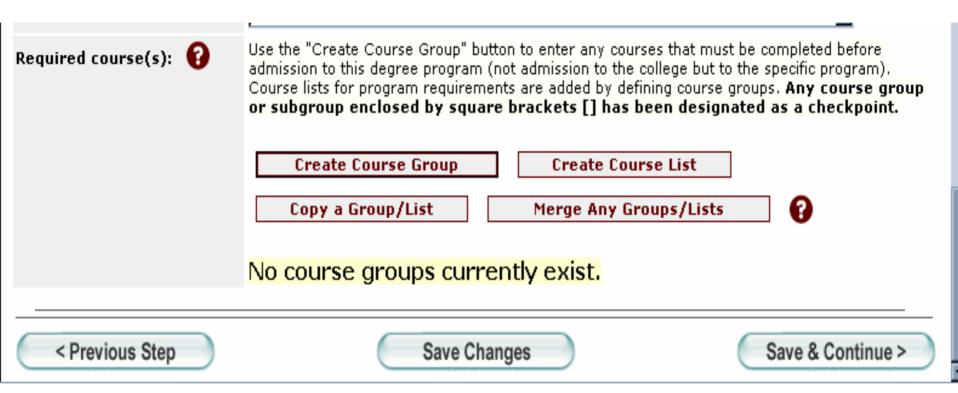
- The COURSE GROUP concept
- The link to the course database (ECAS)
- Nesting of requirements
- Sub-plans (tracks)
- Sample plans
- Checkpoint charts
- Approval process

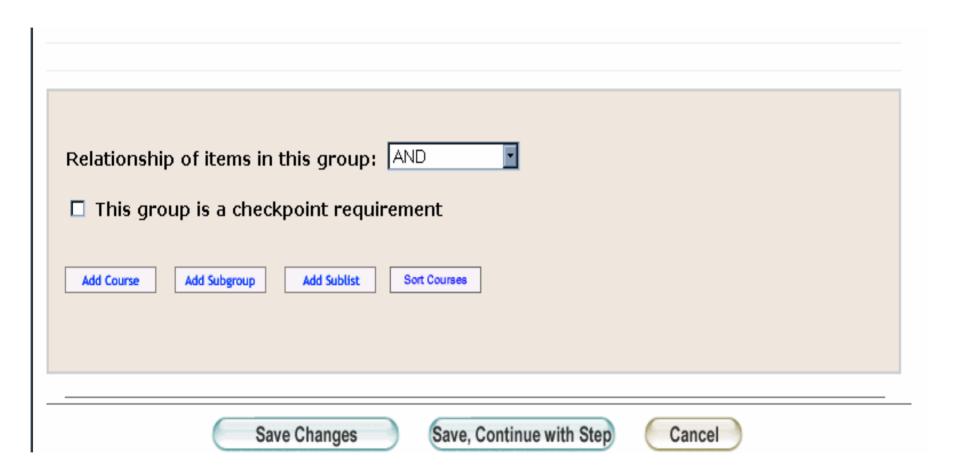
What is a course group?

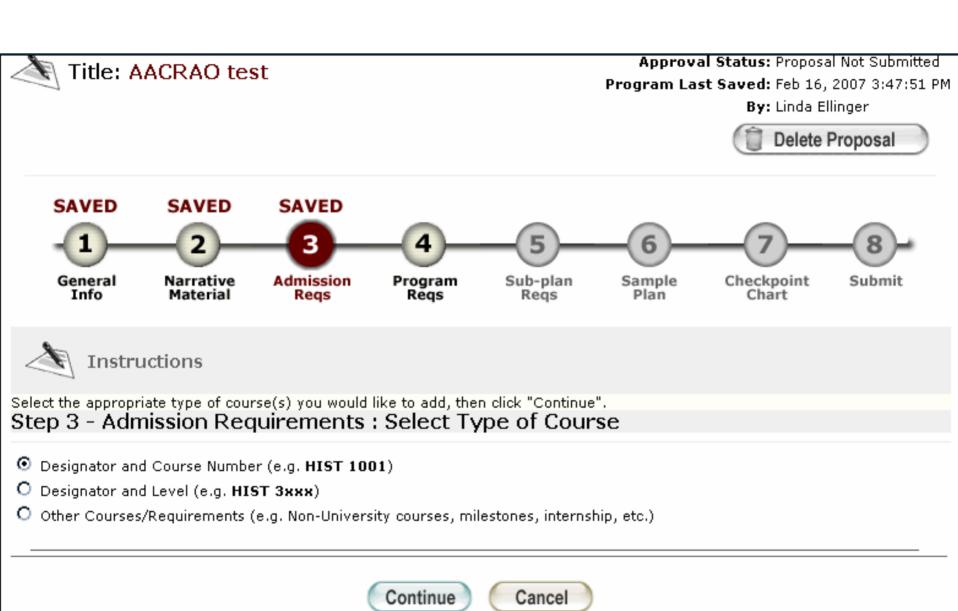
The basic building block in PCAS:

a set of elements -- courses, course groups, and/or course lists -- with a logical relationship that determines what items in the set must be completed.

- •AND –students must take both course A and course B
- •OR Students may take either course A or course B.
- •Concurrent With students must take all courses in the group in the same semester









To add another course of the same type click "Save & Add Another +". If you want to add courses of a different type, or when you have finished click "Save & Continue >".

Step 3 - Admission Requirements : Create Course

Designator with Course Number

*=Required field

*Designator	*Course Number	Must take A-F	Minimum Grade	*Earliest Semester	*Latest Semester	*Recommended Semester
chem	1021	O No O Yes	C- •	Year 1 - Fall	Year 1 - Spring	Year 1 - Fall
Preferred (Recor or Required for in the Honors S	nmended Students					

Save & Add Another +

Save & Continue >

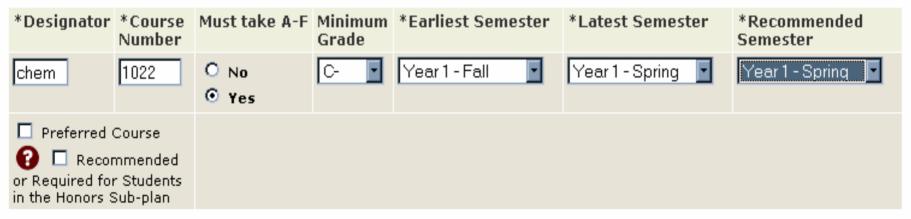
Cancel

Step 3 - Admission Requirements: Create Course

Course 'CHEM 1021' has been saved.

Designator with Course Number

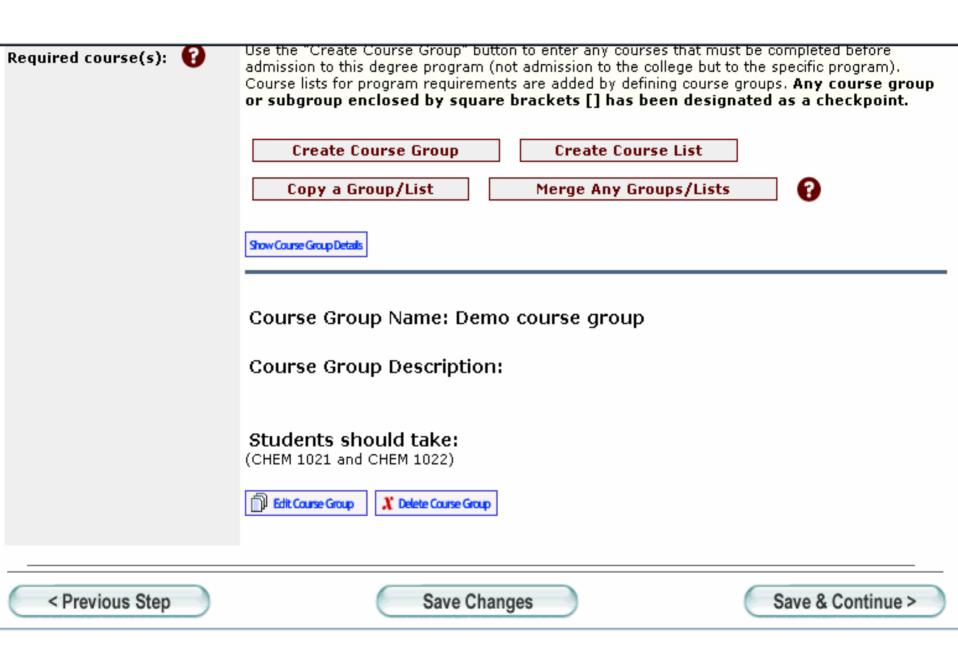
*=Required field



Save & Add Another + Save & Continue >

Cancel

Add Course Add	Subgroup	Add Sublis	t Sort (Courses					
Title: Chemical Prin	iciples I								
Course Years Offered	Terms Offered	ECAS Status	Must Take A-F	Minimum Grade	Credits	Earliest - Latest Semester	Semester	Recomm. / Required for Honors	Liberal Ed Regs
CHEM 1021 EVERY view prereq Edit Delete Move	Fall, Spring	Approved	Yes	C-	4.0	Y1 Fall - Y1 Spring	Y1 Fall	No	ENVT, PHYS SCI/L
				AND					
Title: Chemical Prin	iciples II								
Course Years Offered	Terms Offered	ECAS Status	Must Take A-F	Minimum Grade	Credits	Earliest - Latest Semester	Semester	Recomm. / Required for Honors	Liberal Ed Regs
CHEM 1022 EVERY view prereq Edit Delete Move:	Fall, Spring	Approved	Yes	C-	4.0	Y1 Fall - Y1 Spring	Y1 Spring	No	ENVT, PHYS SCI/L



What is a course list?

A course list is a set of elements -- courses, course groups, and/or course lists -- with a minimum number of courses or credits that must be taken from the subgroups in the set.

- •Take X COURSES Choose at least X number of courses from the subgroups in the set.
- •Take Y CREDITS Choose at least Y credits of courses from the subgroups in the set

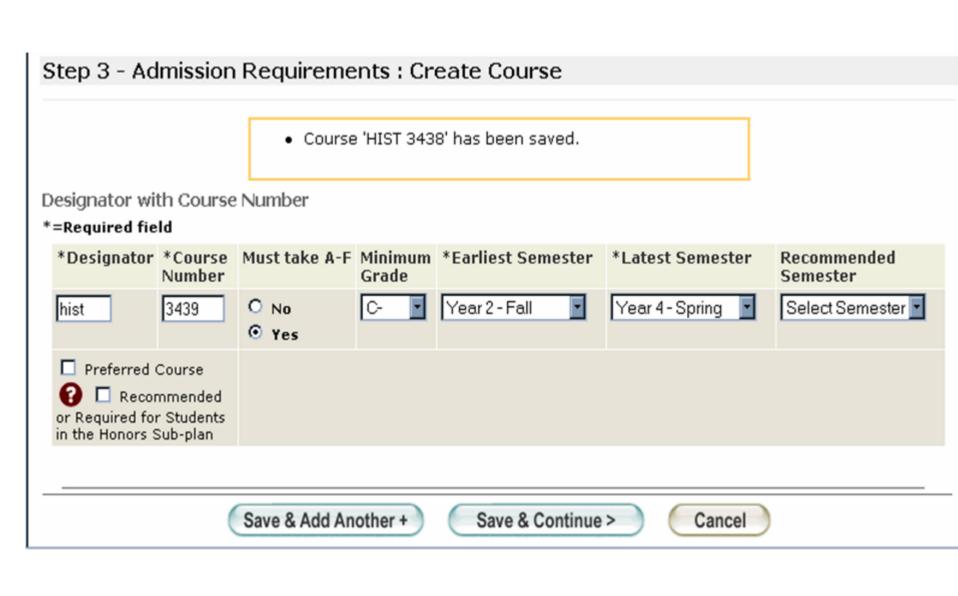
This course list is a checkpoint requirement

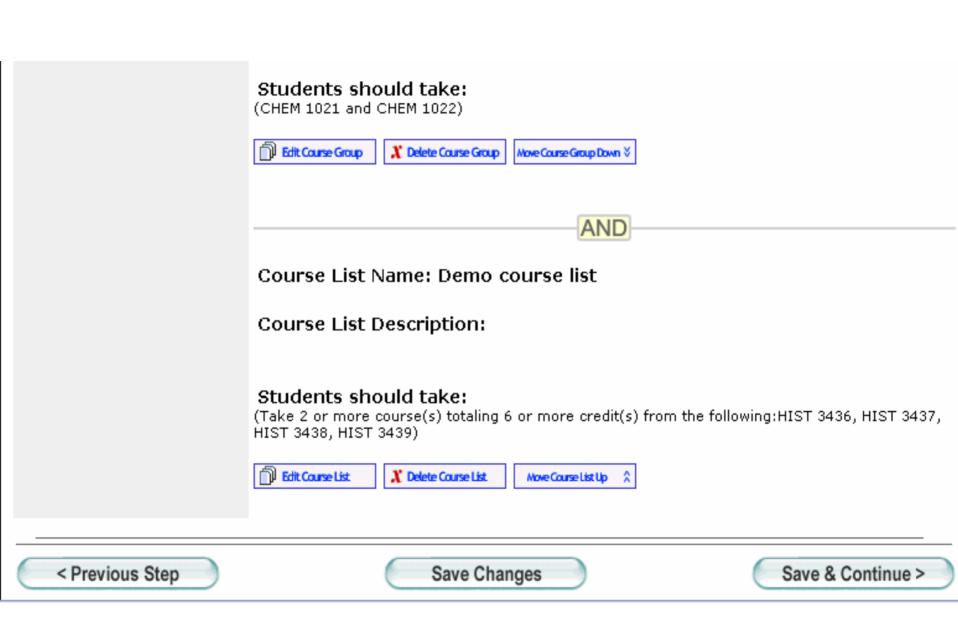
Add Course

Add Subgroup

Add Sublist

Sort Courses





NESTED course groups/lists

(ACCT 2050 and ESPM 3603 and ESPM 3604 and ESPM 5019 and (Take 6 or more credit(s) from the following:ESPM 3011W, ESPM 3202W, ESPM 3241W, ESPM 3602, ESPM 3605, ESPM 3606, ESPM 4061W, ESPM 4607, ESPM 4608, PLPA 3002))



Approval Status: Proposal Not Submitted

Program Last Saved: Feb 16, 2007 4:14:54 PM

By: Linda Ellinger





Step 5 : Sub-plan

*=Required field

Is a sub-plan required for this program?

O No

Yes

Current sub-plans:

No sub-plans currently exist.

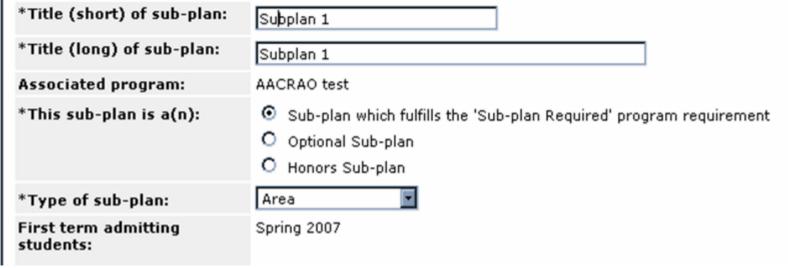
Create Sub-plan



Step 5 :Sub-plan Creation

If you are creating a new sub-plan enter the appropriate information below. When you are finished, click "Save, Continue with Step".

*=Required field





Step 5 : Sub-plan

*=Required field

Is a sub-plan required for this program?

O No

Yes

Current sub-plans:

Subplan 1

Edit 'Subplan 1' | Delete 'Subplan 1' | View 'Subplan 1'

Create Sub-plan



Step 6 :Sample Plan(s)

To edit/view a sample plan, click on the appropriate link.

To create a new sample plan, click on the "Create Sample Plan for:..." button appropriate to the program/sub-plan you wish to create a sample plan for. For very large or complex programs, especially those with sub-plans and/or focuses, it may take a minute or more to load or create sample plans.

Please do not click back or stop on your browser.

*=Required field

*Sample plan(s) with subplan:



There must be at least one sample plan for each sub-plan in this program.

Subplan 1

No sample plans exist.

Create Sample Plan for Subplan 1

Subplan 2

No sample plans exist.

Create Sample Plan for Subplan 2



Step 6 : Sample Plan Detail

The courses displayed in this sample plan are based on the Recommended Semester entered for each course entered.

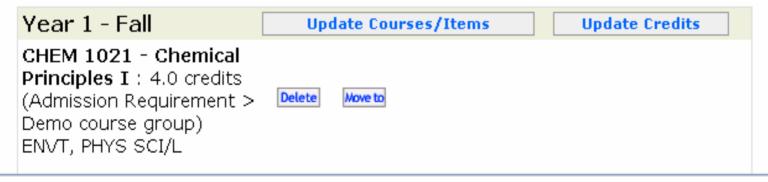
You can delete items below by clicking the "Delete" button next to the item. You can then add any new items (including freshman composition, language, and liberal/general education courses) by clicking the "Update Course/Items" button. Use the "Update Credits" button to change the number of credits for an item in the sample plan.

*=Required field

*Sample plan name: |sample plan

Sample plan (total) credits: 53.0

Sample Plan Details for Sub-plan: Subplan 1



sample plan : Year 1 - Fall Courses ☑ CHEM 1021 - Chemical Principles I : 4.0 credits (Admission Requirement > Demo course group) ENVT, PHYS SCI/L ☐ CHEM 1022 - Chemical Principles II : 4.0 credits (Admission Requirement > Demo course group) ENVT, PHYS SCI/L

General Requirements

✓ LE Requirement : 4.0 credits (General Requirement)

Add General Requirement

To add a general requirement, click the button with the name of the general requirement you wish to add, such as "Save and Add Elective".

Save and Add Elective

Save and Add Freshman Composition

Save and Add LE Requirement

Other Requirements

No Other Requirements exist.

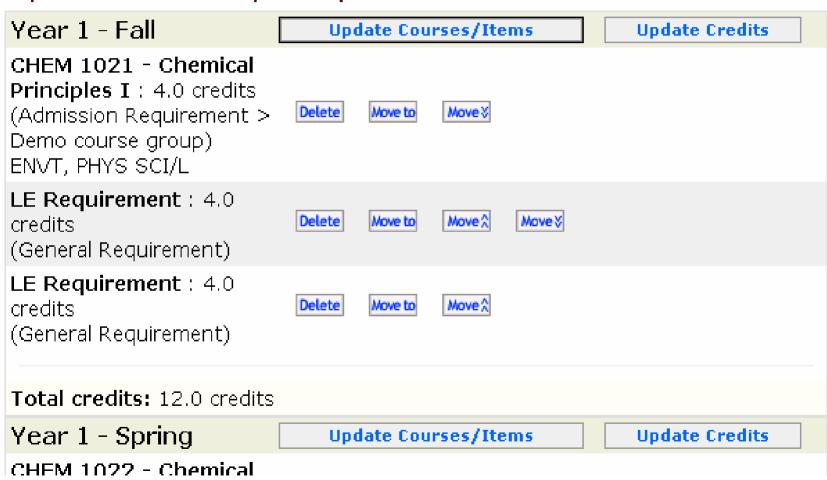
Add Other Requirement

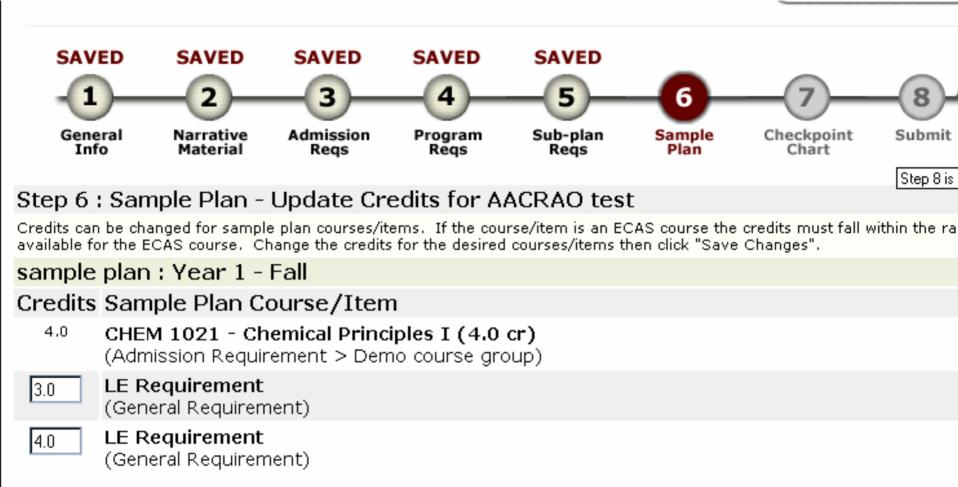
*=Required field

*Sample plan name: |sample plan

Sample plan (total) credits: 61.0

Sample Plan Details for Sub-plan: Subplan 1





Save Changes

Cancel Changes

Sample plan (total) credits: 60.0 Sample Plan Details for Sub-plan: Subplan 1 Year 1 - Fall Update Courses/Items **Update Credits** CHEM 1021 - Chemical Principles I: 4.0 credits Delete Move to Move & (Admission Requirement > Demo course group) ENVT, PHYS SCI/L LE Requirement: 3.0 Delete Move to Move [∧] Move ¥ credits (General Requirement) LE Requirement: 4.0 Delete Move to Move ∴ credits (General Requirement) **Total credits:** 11.0 credits Year 1 - Spring Update Courses/Items **Update Credits** CHEM 1022 - Chemical Principles II: 4.0 credits Delete Move to

(Admission Requirement > Demo course group)

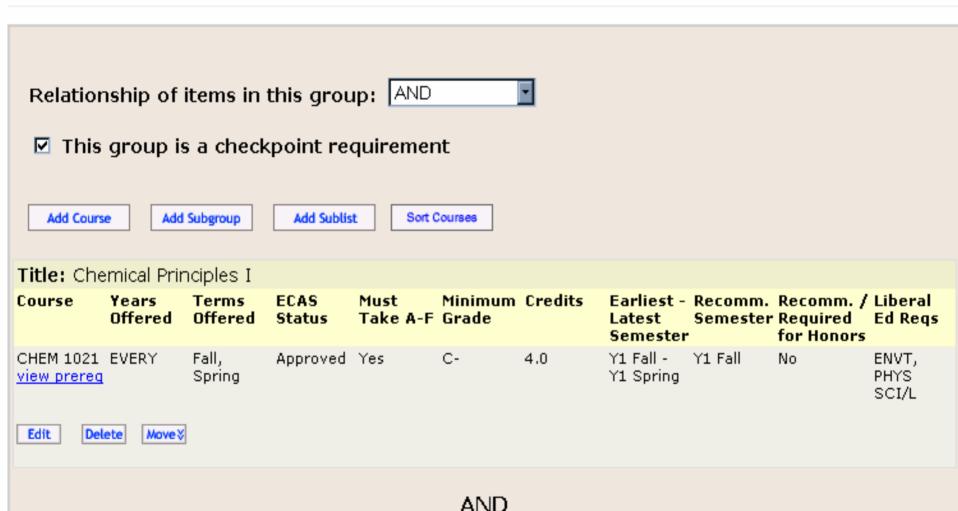
F. F. D. D. C. C. C. C.

Checkpoint Chart									
Potential term for fulfilling the	· ·	Yea	ar 1	Year 2		Year 3		Ye 4	
Checkpoint requirements	Requirement definitions	Fall	Spring	Fall	Spring	Fall	Spring	Fall	
 General requirement checkpoints (con 	nplete all)								
Freshman Composition	Complete the freshman composition requirement.								
Sub-plan 'Subplan 1' requirement checl	kpoints (complete all)								
Subplan 1	<no checkpoints="" marked=""></no>								
Sub-plan 'Subplan 2' requirement checl	kpoints (complete all)								
Subplan 2	<no checkpoints="" marked=""></no>								
								_	

< Previous Step

Save Changes

Save & Continue >



Checkpoint Chart

	Potential term for fulfilling the	· ·	Yea	ar 1	Ye 2		Ye 3	ear 3	Ye 4
Che	ckpoint requirements	Requirement definitions	Fall	Spring	Fall	Spring	Fall	Spring	Fall
• Gene	eral requirement checkpoints (com	aplete all)							
Fresh	nman Composition	Complete the freshman composition requirement.							
• Admi	ission requirement checkpoints (d								
Demo	o course group	CHEM 1021	+						
Demo	o course group	CHEM 1022		+					
• Sub-p	plan 'Subplan 1' requirement check	kpoints (complete all)							
Subpl	ian 1	<no checkpoints="" marked=""></no>							
• Sub-p	plan 'Subplan 2' requirement check								
Subpl	lan 2	<no checkpoints="" marked=""></no>							