The aims of the Master of Science in Energy degree program are:

- Educate students/professionals with the broad spectrum of important energy issues, energy technologies based on fossil and non-fossil resources, sustainable energy technologies, and their interactions with energy economics, entrepreneurship, law, and policy.
- Enhance the quantitative skills and knowledge of students/professionals for the analysis, simulation, and optimization of energy systems, and prepare them for practical applications.
- Develop and enhance students’ skills for independent research in energy.
- Educate and train the new generation of “energy experts” to leadership and impactful careers in the multi-faceted energy industry, the energy business domain, the law sector, the public policy sector, and the government.
- Integrate and synergize educational efforts in energy from all parts of Texas A&M University that include (a) the College of Agriculture and Life Sciences; (b) the College of Engineering, (c) the College of Geosciences; (d) the College of Sciences; (e) the Bush School of Government and Public Policy; (f) the Mays Business School; (g) the College of Liberal Arts; and (h) the School of Law.

Emphasis is placed on creating the new generation of energy educated students and professionals who are broadly educated on all components of energy through quantitative analytical methods and multi-scale systems based approaches.

The Master of Science in Energy is designed to introduce students and professionals to the multiple interdisciplinary facets of energy ranging from an overview of energy technologies (fossil-based, renewable, and non-fossil based) to multi-scale energy systems engineering methods, to energy economics, law, security, policy, and societal impact. The structure of the degree is based on (a) non-overlapping modules, (b) distinguished seminar series, and (c) research thesis (thesis track only). This program is also approved for delivery via asynchronous distance education technology.

Each module is 1.5 weeks long and has 5 teaching days, including a total of 22 hours of lecture/lab material (22 contact hours) with 4.4 hours of lectures per teaching day. Therefore, two weekly modules are equivalent to a semester-long course and correspond to 3.0 credits. Seminars are delivered by distinguished energy experts from academia, industry, and government. Research thesis topics are provided and supervised by faculty members affiliated with the Texas A&M Energy Institute.

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If the chair of a student’s advisory committee voluntarily leaves the University and the student is near completion of the degree and wants the chair to continue to serve in this role, the student is responsible for securing a current member of the University Graduate Faculty, from the student’s academic program and located near the Texas A&M University campus site, to serve as the co-chair of the committee. The Department Head or Chair of Intercollegiate faculty may request in writing to the Associate Provost for Graduate and Professional Studies that a faculty member who is on an approved leave of absence or has voluntarily separated from the university, be allowed to continue to serve in the role of chair of a student’s advisory committee without a co-chair for up to one year. The students should be near completion of the degree. Extensions beyond the one year period can be granted with additional approval of the Dean.

If the chair of the student’s advisory committee is unavailable for an extended time in any academic period during which the student is involved in activities relating to an internship, thesis or professional paper, and is registered for courses such as 684, 691, 692 or 693, the student may request, in writing, that the department head appoint an alternate advisory committee chair during the interim period.

The duties of the committee include responsibility for the proposed degree plan, the research proposal, the thesis and the final examination. In addition, the committee as a group and as individual members are responsible for advising the student on academic matters, and, in the case of academic deficiency, initiating recommendations to the Office of Graduate and Professional Studies.

The committee members’ approval on the degree plan indicate their willingness to accept the responsibility for guiding and directing the entire academic program of the student and for initiating all academic actions concerning the student. Although individual committee members may be replaced by petition for valid reasons, a committee cannot resign en masse.

Degree Plan

On-Campus and Distance Education Degree Programs

The student’s advisory committee, in consultation with the student, will develop the proposed degree plan. The degree plan must be completed and filed with the Office of Graduate and Professional Studies prior to the deadline imposed by the student's college or interdisciplinary degree program, if applicable, and no later than 90 days prior to the date of the final oral examination or thesis defense.

A student should submit the degree plan using the online Document Processing Submission System (http://ogsdpss.tamu.edu/).

A student submitting a proposed degree plan for a Master of Science degree should designate on the official degree plan the appropriate program option.

Additional coursework may be added to the approved degree plan by petition if it is deemed necessary by the advisory committee to correct deficiencies in the student’s academic preparation. No changes can be made to the degree plan once the student’s Request for Final Examination or Request for Final Examination Exemption is approved by the Office of Graduate and Professional Studies.

Credit Requirement

On-Campus and Distance Education Degree Programs

A minimum of 32 semester credit hours of approved courses and research is required for the thesis option Master of Science in Energy degree. The thesis option requires 16 modules, thesis, and seminars. It includes a research thesis and will require students to be in College Station and work in research with faculty members affiliated with the Texas A&M Energy Institute. The fall semester structure of the thesis track will have 8 modules, the distinguished seminar series, and research thesis work. The spring semester structure of the thesis track will consist of 8 modules and research thesis work. The additional 2 months will be devoted towards the completion and defense of the research thesis work. The total number of semester credit hours will be 32 (i.e., 24 for the 16 modules, 2 for the seminars, and 6 for the research thesis work).

A minimum of 36.5 semester credit hours of approved coursework is required for the Non-Thesis Option of the Master of Science in Energy. The non-thesis option requires 23 modules and seminars. This track is offered to students or professionals face-to-face in College Station, Texas or online via distance learning. The Fall semester structure of the non-thesis track will have 10 modules and the distinguished seminars. The spring semester structure of the non-thesis track will consist of 10 modules. Three additional modules will be offered upon completion of the spring semester. The total number of semester credit hours will be 36.5 (i.e., 34.5 for the 23 modules, and 2 for the seminars).

Transfer of Credit

On-Campus and Distance Education Degree Programs

A student who has earned 12 hours of graduate credit in residence at Texas A&M University may be authorized to transfer courses in excess of the limits prescribed below upon the advice of the advisory committee and with the approval of the Office of Graduate and Professional Studies. Courses taken in residence at an accredited U.S. institution or approved international institution with a final grade of B or greater may be considered for transfer credit if, at the time the courses were completed, the courses would be accepted for credit toward a similar degree for a student in degree-seeking status at the host institution. Otherwise, the limitations stated in the following section apply. Coursework in which no formal grades are given or in which grades other than letter grades (A or B) are earned (for example, CR, P, S, U, H, etc.) is not accepted for transfer credit. Courses appearing on the degree plan with grades of D, F or U may not be absolved by transfer work. Credit for thesis research or the equivalent is not transferable. Credit for coursework submitted for transfer from any college or university must be shown in semester credit hours or equated to semester credit hours. An official transcript from the university at which the transfer coursework was taken must be sent directly to the Office of Admissions.

Courses used toward a degree at another institution may not be applied for graduate credit. If the course to be transferred was taken prior to the conferral of a degree at the transfer institution, a letter from the registrar at that institution stating that the course was not applied for credit toward the degree must be submitted to the Office of Graduate and Professional Studies.

Grades for courses completed at other institutions are not included in computing the GPR.

Limitations on the Use of Transfer, Extension and Certain Other Courses

On-Campus and Distance Education Degree Programs

Courses appearing on the degree plan with grades of D, F or U may not be absolved by transfer work. Credit for thesis research or the equivalent is not transferable. Credit for coursework submitted for transfer from any college or university must be shown in semester credit hours or equated to semester credit hours. An official transcript from the university at which the transfer coursework was taken must be sent directly to the Office of Admissions.

Courses used toward a degree at another institution may not be applied for graduate credit. If the course to be transferred was taken prior to the conferral of a degree at the transfer institution, a letter from the registrar at that institution stating that the course was not applied for credit toward the degree must be submitted to the Office of Graduate and Professional Studies.

Grades for courses completed at other institutions are not included in computing the GPR.
Some departments may have more restrictive requirements for transfer work. If otherwise acceptable, certain courses may be used toward meeting credit-hour requirements for the master's degree under the following limitations.

1. The maximum number of credit hours which may be considered for transfer credit is the greater of 12 hours or one-third (1/3) of the total hours of a degree plan. The following restrictions apply:
   • Graduate and/or upper-level undergraduate courses taken in residence at an accredited U.S. institution, or approved international institution with a final grade of B or greater will be considered for transfer credit if, at the time the courses were completed, the student was in degree-seeking status at Texas A&M University, or the student was in degree-seeking status at the institution at which the courses were taken; and if the courses would be accepted for credit toward a similar degree for a student in degree-seeking status at the host institution.
   • Courses previously used for another degree are not acceptable for degree plan credit.

2. The maximum number of credit hours taken in post-baccalaureate non-degree (G6) classification at Texas A&M University which may be considered for application to the degree plan is 12.

3. A zero credit 684 or 685 course is only allowed for non-thesis option master's students. A zero credit 681 course can be used for either thesis or non-thesis option master's students. Other courses, including 691 research hours, are not eligible for zero credit.

4. Not more than 12 hours may be used in any combination of the following categories:
   • Not more than 8 hours in the combination of 691 (research), 684 (Professional Internship) or may be used.
   • Not more than 8 hours of 685 (Directed Studies) may be used.
   • Not more than 3 hours of 690 (Theory of Research) may be used.
   • Not more than 3 hours of 695 (Frontiers in Research) may be used.

5. A maximum of 2 hours of Seminar (681).

6. A maximum of 9 hours of advanced undergraduate courses (300- or 400-level).

7. For graduate courses of three weeks’ duration or less, taken at other institutions, up to 1 hour of credit may be obtained for each five-day week of coursework. Each week of coursework must include at least 15 contact hours.

8. Continuing education courses may not be used for graduate credit.

9. Extension courses are not acceptable for credit.

10. For non-distance degree programs, no more than 50 percent of the credit hours required for the program may be completed through distance education courses.

11. To receive a graduate degree from Texas A&M University, students must earn one-third or more of the credits through the institution’s own direct instruction. This limitation also applies to joint degree programs.

Exceptions will be permitted only in unusual cases and when petitioned by the student’s advisory committee and approved by the Office of Graduate and Professional Studies.

**Thesis Option**

**On-Campus and Distance Education Degree Programs**

An acceptable thesis is required for the Master of Science degree for a student who selects the thesis option program. The finished work must reflect a comprehensive understanding of the pertinent literature and express in clear English, the problem(s) for study, the method, significance and results of the student’s original research. Guidelines for the preparation of the thesis are available in the *Thesis Manual*, which is available online at the Office of Graduate and Professional Studies website.

After successful defense (or exemption) and approval by the student’s advisory committee and the head of the student’s major department (or chair of the intercollegiate faculty, if appropriate), the student must submit his/her thesis in electronic format as a single PDF file. The PDF file must be uploaded to the Office of Graduate and Professional Studies website. Additionally, a signed paper approval form with original signatures must be received by the Office of Graduate and Professional Studies. The PDF file and the signed approval form are required by the deadline.

Deadline dates for submitting the thesis are announced each semester or summer term in the “Office of Graduate and Professional Studies Calendar” (see Time Limit statement). These dates also can be accessed via the Office of Graduate and Professional Studies website.

Each student who submits a document for review is assessed a one-time thesis/dissertation processing fee through Student Business Services. This processing fee is for the thesis/dissertation services provided. After commencement, theses and dissertations are digitally stored and made available through the Texas A&M Libraries.

A thesis that is deemed unacceptable by the Office of Graduate and Professional Studies because of excessive corrections will be returned to the student’s department head (or chair of the intercollegiate faculty, if applicable). The manuscript must be resubmitted as a new document, and the entire review process must begin again. All original submittal deadlines must be met during the resubmittal process to graduate that semester.

**Thesis Proposal**

**On-Campus and Distance Education Degree Programs**

For the thesis option Master of Science degree, the student must prepare a thesis proposal for approval by the advisory committee and the head of the major department or chair of the interdisciplinary faculty, if applicable. This proposal must be submitted to the Office of Graduate and Professional Studies at least 20 working days prior to the submission of the request for the final examination.

Compliance issues must be addressed if a graduate student is performing research involving human subjects, animals, infectious biohazards and recombinant DNA. A student involved in these types of research should check with the Office of Research Compliance and Biosafety at (979) 458-1467 to address questions about all research compliance responsibilities. Additional information can also be obtained on the Office of Research Compliance and Biosafety website.

**Final Examination/Thesis Defense**

**On-Campus and Distance Education Degree Programs**

A student must pass a final examination by dates announced each semester or summer term in the Office of Graduate and Professional Studies Calendar. To be eligible to take the final examination, a student’s GPR must be at least 3.00 for courses on the degree plan and for all
courses completed at Texas A&M which are eligible to be applied to a
graduate degree, and there must be no unsolved grades of D, F or U
for any course listed on the degree plan. To absolve a deficient grade, the
student must repeat the course at Texas A&M University and achieve a
grade of C or better. All coursework on the degree plan must have been
completed with the exception of those hours for which the student is
registered. For thesis-option students, an approved thesis proposal must
be on file in the Office of Graduate and Professional Studies according to
published deadlines prior to the final examination or submission of the
request for exemption from the final examination.

A request to hold and announce the final examination must be submitted
to the Office of Graduate and Professional Studies a minimum of 10
working days in advance of the scheduled date for the examination. The
Office of Graduate and Professional Studies must be notified in writing of
any cancellations. A student may be given only one opportunity to repeat
the final examination for the master's degree and that must be within
a time period that does not extend beyond the end of the next regular
semester (summer terms are excluded).

For thesis option students, the final examination covers the thesis and
all work taken on the degree plan and at the option of the committee may
be written or oral or both. The final examination may not be administered
before the thesis is available to all members of the student's advisory
committee in substantially final form, and all members have had
adequate time to review the document. The examination is conducted by
the student's advisory committee as finally constituted. A thesis
option student must be registered in the University in the semester or
summer term in which the final examination is taken. Persons other
than members of the graduate faculty may, with mutual consent of
the candidate and the major professor, attend final examinations for
advanced degrees. Upon completion of the questioning of the candidate,
all visitors must excuse themselves from the proceedings. A positive vote
by all members of the graduate committee with at most one dissension
is required to pass a student on his or her exam. A department, or
interdisciplinary degree program, may have a stricter requirement
provided there is consistency within all degree programs within a
department or interdisciplinary degree program.

The Report of the Final Examination Form must be submitted with
original signatures of only the committee members approved by the
Office of Graduate and Professional Studies. If an approved committee
member substitution (1 only) has been made, his/her signature must
also be submitted to the Office of Graduate and Professional Studies. If
necessary, multiple copies of the form may be submitted with different
committee member original signatures. If an approved committee
member substitution (1 only) has been made, his/her signature must
be included on the form submitted to the Office of Graduate and
Professional Studies.

A thesis option candidate may petition to be exempt from his/her final
examination provided his/her degree plan GPR is 3.500 or greater and he/
she has the approval of the advisory committee, the head of the student's
major department, or intercollegiate chair, if appropriate, and the Office
of Graduate and Professional Studies. It is required that the petition
for exemption be submitted the same semester the student intends to
submit the thesis.

Non-Thesis Option
Distance Education Degree Program

The Final Examination is not required for the Master of Science in Energy.
Time Limit
All degree requirements must be completed within a period of seven consecutive years for the degree to be granted. A course will be considered valid until seven years after the end of the semester in which it is taken. Graduate credit for coursework which is more than seven calendar years old at the time of the final examination (oral or written) may not be used to satisfy degree requirements.

A student who has chosen the thesis option must have the final corrected version of the thesis cleared by the Office of Graduate and Professional Studies no later than one year after the final examination, or approval of a petition for exemption from the final exam, or within the seven-year time limit, whichever occurs first. Failure to do so will result in the degree not being awarded.

Foreign Languages
No specific language requirement exists for the Master of Science degree.

Application for Degree
For information on applying for your degree, please visit the Graduation (http://catalog.tamu.edu/graduate/academic-expectations-general-degree-requirements/degree-requirements/#graduation) section.