TAMU Qatar Areas of Interest
Collection Development Policy Statement

Purpose and Scope of Collection

The primary areas taught and researched are the four engineering disciplines

- Chemical engineering
- Electrical engineering
- Mechanical engineering
- Petroleum engineering

TAMU Related Factors of Special Note

Of growing concern are interstitial topical areas that might support emerging research interests specific to the collaborative projects between TAMU Qatar and other universities and industrial partners throughout the world. These are varied and broad in nature, but library collection developers will work with researchers to include relevant and supportive materials.

Secondary subjects that support the core curriculum or research interests include courses in the Humanities and Basic Sciences. Basic as well as specialized materials are collected by faculty request as related to teaching. These are primarily but not limited to

- Chemistry
- Communication
- English
- Geology
- History
- Kinesiology
- Mathematics
- Material Sciences
- Physics
- Political Science

Subject

Chemical Engineering

General Support

Classification	Subject	Collecting Level
TP 1- 365	Chemical Technology	Basic
TP 778-1185	Chemical Technology - industries	Basic
TS 1-1935	Manufacturing	Basic

Curricular Support

QA 401	Engineering Mathematics	Instructional Support
QA 901	Fluid Mechanics	Instructional Support
QC 320	Heat Transfer	Instructional Support

QD 251 – 253	Organic Chemistry	Instructional Support
QD 453	Physical Chemistry for Engineers	Instructional Support
TA 330	Engineering Mathematics	Instructional Support
TJ 265	Thermodynamics	Instructional Support
TP 55	Safety Engineering	Instructional Support
TP 155.5	Chemical Engineering Plan Design	Instructional Support
TP 156	Heat Transfer	Instructional Support
TP 157	Chemical Engineering Materials	Instructional Support

Electrical Engineering

General Support

Classification	Subject	Collecting Level
TK 1-7884	Electrical Engineering. Electronics	Basic
TK 1-5104.2	Electrical Power or Energy	Basic
TK 5107-7805	Telecommunication	Basic
TK7806-8404	Electronics	Basic
TK 9900-9971	Popular or general topics in electronics	Basic

Curricular Support

Classification	Subject	Collecting Level
QA 76-76.9	Computer Architecture and Design	Instructional Support
QA 273-74	Random Signals and Systems	Instructional Support
QA 4023	Linear Control Systems	Instructional Support
QP 461	Electric and Magnetic Fields	Instructional Support
TJ 220	Linear Control Systems	Instructional Support
TJ 213-223	Digital Control Systems	Instructional Support
TJ 213-223	Digital Signal Processing	Instructional Support
TK 454	Electrical Circuit Theory	Instructional Support
TK 2000	Electric and Magnetic Fields	Instructional Support
TK 7868-7895	Digital Systems Design	Instructional Support
TK 5102	Random Signals and Systems	Instructional Support
TK 5103-5105	Digital and Wireless Communications	Instructional Support
TK 7816-7867	Electronics	Instructional Support
TK 7871	Electronic Properties of Materials	Instructional Support
TK 7881	Power Electronics	Instructional Support
TK 7895	Microprocessor Systems Design	Instructional Support

Mechanical Engineering

General Support

Classification	Subject	Collecting Level
TJ1 - TJ 1570	Mechanical Engineering and Machinery	Research

Curricular Support

Classification	Subject	Collecting Level
QA	Dynamics Systems and Controls	Instructional Support
QA 274	Statistics and Particle Dynamics	Instructional Support
QA 845	Dynamics and Vibration	Instructional Support
QC 320	Heat Transfer	Instructional Support
TA	Dynamics Systems and Controls	Instructional Support
TA 165	Mechanical Measurements	Instructional Support
TA 174	Materials and Manufacturing Selection	Instructional Support
TA 350	Solid Mechanics	Instructional Support
TA 357	Fluid Mechanics	Instructional Support
TA 401-03	Materials Science	Instructional Support
TA 404	Materials and Manufacturing Selection	Instructional Support
TA 405	Mechanics of Materials	Instructional Support
TA 418	Engineering Analysis for Mechanical Engineers	Instructional Support

Petroleum Engineering

General Support

TN 600-799.4	Nonmetallic Minerals. Petroleum	Basic
TP 685-700	Petroleum Refining	Basic

Curricular Support

QA 612.6	Statistics and Particle Dynamics	Instructional Support
QE 26-261	Physical Geology	Instructional Support
QE 33.2	Geostatistics	Instructional Support
QE 429-499	Petrology	Instructional Support
QE 501	Structural Geology and Tectonics	Instructional Support
QE 571	Sedimentology and Stratigraphy	Instructional Support
TA 329-348	Engineering Mathematics. Analysis	Instructional Support
TA 605 – 645	Mechanics of Materials	Instructional Support
TD 878	Geostatistics	Instructional Support
TJ 265	Principal of Thermodynamics	Instructional Support
TN 87-871	Well Performance	Instructional Support
TP 690.3	Petroleum Drilling Systems	Instructional Support

TN 865-871.3	Petroleum Production System	Instructional Support
TN 270-273	Prospecting	Instructional Support
TN 870 -870.5	Geology of Petroleum	Instructional Support
TP 870 - 870.5	Petroleum Engineering	Instructional Support
TN 870.5 – 871	Reservoirs Petrophysics	Instructional Support
TN 870.5-871	Reservoir Models	Instructional Support
TN 870-871.2	Drilling Engineering	Instructional Support
TN 871	Reservoir Fluids	Instructional Support
TN 871	Reservoir Development	Instructional Support

Institutional Repository / Digitization Projects

TAMUQ Repository: http://repository.qatar.tamu.edu/
Special collections include:

- Faculty research and publications
- Student honors papers and senior design projects
- Campus history, including oral history interviews, campus publications and documents, event information, news clippings and press releases

TAMU repository: http://repository.tamu.edu/
Theses, dissertations and honors papers related to engineering are pertinent.

Non-Subject Parameters

- Languages
  - English primary, others by request

- Geographic Coverage
  - Gulf region
  - Near and Middle East
  - Asia
  - Any other oil producing region, such as Africa, South and North America

- Chronological Coverage
  - 2000 – current primary
  - Older by request

- Physical Formats
  - Periodicals – electronic preferred
  - Indexes/Databases – electronic preferred
  - Monographs – print or electronic
  - Computer Software – only if requested by faculty and not under the Information Technology area of responsibility
  - Video – only if requested by faculty
  - Microform –if only format available
  - Images – only if requested by faculty

- Maps -- by request only
- Other formats - considered on an individual basis

- Level of Audience
  - All Course Textbooks – when course is actively taught.
  - Graduate Textbook - as relates to other aspects of collection
  - Professional as appropriate to collection or by request
  - General academic - as appropriate to collection
  - Advanced academic - as appropriate to collection
  - Popular Collection – by request; added as ebooks on Sony digital readers

*Other Areas of Interest

Keywords

Alternative fuels	Asphalt	Biotechnology
Chemical manufacture	Chemical processes	Coatings
Computer aided processes	Corrosion	Desalinization
Desulphurization	Economic and risk assessment	Extraction
Filtration	Fluidization	Fracture analysis
Management concepts	Membrane technologies	Mixing
Molding	Nanotechnology	Petrochemical
Process control	Rheology	Sustainable energy (especially solar and wind)
Safety	Vibration	

LC Ranges

HD 69	Project management
HF 5383	Resume and interviewing style guides
HD 7262-7262.5	Industrial safety
HD 9502	Energy industries
HD 9560-9580	Petroleum industries
HD 9650-9662	Chemicals. Plastics industries
HD 9696-9697	Electronics. Computing industries
HE 7601-8688	Telecommunication industry
KMS 0-499	Qatar (esp. materials on industry)
Q 1-390	Science (general)
QD 1-455.4	Chemistry (esp. areas of faculty research)
QE 420-499	Petrology
T 11-13	Technical writing manuals
T 201-350	Patents
TA 1-158	General Engineering and Engineering as a profession
TA 177-200	Engineering economy. Management
TA 1501-1820	Applied optics. Photonics
TJ 163.2	Mechatronics
TA 165- 500	Engineering instruments, engineering design, human engineering
TJ227-240	Machine design and drawing
TJ 1040-1124	Tribology

TP 1080-1185	Polymers
TS 1-194	Manufactures, production management

Other Collection Development Policy Statements of Interest

Discipline subject guides and collection policies developed by subject specialists at the main campus library are a primary source that is replicated to a great extent at the Qatar library.

- Biomedical Engineering (nanotechnology, technology transfer, etc.)
- Chemical engineering
- Chemistry
- Communication
- Electrical engineering
- English
- Environment Studies
- Geology
- History
- Kinesiology
- Materials Science
- Mathematics
- Mechanical engineering
- Petroleum engineering
- Physics
- Political Science

Potential Users

- All faculty, researchers, staff and students of Texas A&M University at Qatar
- Members of the Education City community and general public who come to the library facility

Related Degrees and Programs

Department or College	Title of Degree Program	Cert	BS/BA	MS/MA	PhD
TAMU Qatar	Chemical engineering		BS		
TAMU Qatar	Electrical engineering		BS		
TAMU Qatar	Mechanical engineering		BS		
TAMU Qatar	Petroleum engineering		BS		

Notes

- Older editions are weeded when replaced by the current edition.
- Course textbooks are withdrawn when replaced by newer edition or designated as no longer used, unless faculty request addition to the circulating collection.
- Emphasis is placed on acquiring the latest edition of selected dictionaries, handbooks, standards, encyclopedias related to mechanical engineering discipline, especially those titles which are not available online. When print is requested, online availability is checked, and the

requestor is informed regarding its availability. If print contains additional information, the selector will work with the faculty to collect the best source.
- Older annual volumes of test guides (ACT, SAT, TOEFL) are withdrawn when replaced by newer editions.

Collecting Level Definitions

- Out of Scope
  - Library does not intentionally collect materials in any format for this subject.
- Minimal Information Level
  - Collections that support minimal inquiries about this subject.
- Basic Information Level
  - Collections that serve to introduce and define a subject and to support the needs of general library users through the first two years of college.
- Instructional Support Level
  - Collections that provide information about a subject in a systematic way and support the needs of general library users through college and beginning graduate instruction.
- Research Level
  - A collection that contains the major published source materials required for doctoral study and independent research.
- Comprehensive Level
  - A collection in a specifically defined field of knowledge that strives to be exhaustive, as far as is reasonable possible, in all applicable languages and formats.

Individual Responsible

Carole Thompson
Director of Library
carole.thompson@qatar.tamu.edu
+974.423.0041

Action	Date/Initials	Date/Initials	Date/Initials	Date/Initials
Draft/Update	04/15/2009/ct	6/23/2009/ct		
Reviewed by Discipline Group	5/21/09			
Reviewed by Funding Governance Committee		7/1/2009		
Approved by Head, Collection Development Operations		6/30/2009 CNP		