

Heating, Refrigeration and A/C Degree Certificate and AAS Degree Preferred Course Sequence

| Semester I | Semester II | Semester III | Semester IV |
|---|---|---|---|
| Basic Ref. Theory & Application HRA 102 4 | Refrigerants & Ref. Handling HRA 125 4 | Residential Heating & Air HRA 265 4 | Adv. Heating/ Air Conditioning HRA 270 4 |
| Electricity for HRA HRA 103 4 | Refrigeration Motors & Control HRA 135 4 | Commercial Refrig. Systems HRA 245 4 | Adv. Commercial Refrigeration HRA 250 4 |
| Tech Math I MTH 125 (or) Intermed. Algebra MTH 110 3 | Air Distribution Systems HRA 180 2 | Boilers/Chillers HRA 280 4 | Co-op Ed/Intern HRA 290 2-3 |
| Composition I ENG 101 3 | Public Speaking COM 105 3 | Science Elective (PHY 140 preferred) 4 | ² HRA Capstone HRA 281 2 |
| ¹ American Gov't & Politics PLS 101 3 | Social Science Elective (A)* 3 | 16 | Occupational Seminar TEC 285 1 |
| 17 | 16 Certificate 32 hours | | 13-14 AAS Degree 62-63 hours |

Note: *(A) please see back for additional course information.
Certificate= Courses within bold border

Related Electives

Any related course from the following catalog listings:
BUS, CIS, CST, DDT, HRA, ICA and WLD

¹ May substitute HST 120 and HST 130 for PLS 101 to satisfy Missouri law to include instruction in Federal and State constitutions.

² Students must earn a grade of "C" or better in this course to meet HRA graduation requirements.

This block diagram is provided to aid in advising students and tracking course completion. OTC reserves the right to modify course titles, sequences and content in accordance with college procedures.

Not all courses are offered every semester. Check with the departmental chair for additional information.

HRA

A: OTC COURSES THAT SATISFY THE SOCIAL SCIENCE REQUIREMENTS:

*****To satisfy Missouri law to include instruction in Federal and State Constitution one of the following options must be used to fulfill the social science requirement:***

Option 1: HST 120 and HST 130

Option 2: PLS 101 and ONE (1) other social science from the following:

| | |
|---------|------------------------------------|
| AGR 100 | Introduction to Agriculture |
| ANT 101 | Introduction to Anthropology |
| ECO 270 | Principles of Macroeconomics |
| GRY 101 | World Geography I |
| GRY 230 | World Economic Geography |
| HST 105 | World History I |
| HST 106 | World History II |
| HST 120 | US History I: to 1865 |
| HST 130 | US History II: 1865 to the Present |
| PLS 250 | The Politics of Environment |
| PLS 255 | Environmental Laws and Regulations |
| PSY 110 | Introduction to Psychology |
| SOC 101 | Introduction to Sociology |

Any other ECO, HST, PLS, PSY (may not include PSY 100) and SOC course will fulfill this requirement; however the others have a prerequisite.