To multiply a polynomial by a monomial, distribute the monomial to each of the terms in the polynomial. Remember to multiply coefficients and add exponents.

$$-x^{2}(3x^{2} - 2x - 4) = -x^{2}(3x^{2}) + (-x^{2})(-2x) + (-x^{2})(-4) = -3x^{4} + 2x^{3} + 4x^{2}$$